





ANTICIPATE

LET'S DISCUSS YOUR PROJECT

Sometimes a simple face-to-face conversation is all it takes to spark ideas. We'd love to hear about your needs and see how we can make your product a reality. It's one of the many ways Ducor Petrochemicals takes time to focus on the customer experience.



CREATE

WE ASSIST IN CO-CREATION

We're here to help you make efficient and cost-effective choices. With our technical know-how integrated across R&D and sales departments, Ducor is able and committed to delivering high-quality solutions.



INNOVATE

INNOVATION OUT IN THE MARKETPLACE IS WHAT COUNTS

At Ducor Petrochemicals, we believe in working with our customers to the last details. We know that quality products make the difference and that innovation only pays off when it's on the shelf.

“ To be a reliable source of state-of-the-art polypropylene and low-density polyethylene, making the difference via a strong focus on customer satisfaction. ”



WHAT A GREAT TIME TO CREATE PRODUCTS!

Dear Customer,

You can feel the excitement that comes with innovation. We at Ducor Petrochemicals have enjoyed that feeling as we have recently expanded our R&D and technical expertise capacity to give our customers additional insight into developing innovative products.

Our production site in Rozenburg, the Netherlands, produces 180,000 metric tons of polypropylene per year (using Novolen gas phase technology). In fact, together with the Bazan Group, we have acquired a sustainable market share in the various polypropylene and low-density polyethylene market segments. We attribute our success to our interest in working directly with our customers to create high-quality, customized products.

We want to be your preferred partner among the many available polyolefin producers, too. We can do that by focusing on your needs. Your product is made not only to your specifications, but also with an eye to creating added value. With our technological know-how, we can make recommendations that can save costs and increase your production capacity.

I speak for all of us at Ducor Petrochemicals when I say we are excited to work with you on your next innovative product.

Ann Geens,
Managing Director



IMAGINE WHAT WE CAN MAKE WITH PLASTIC

With R&D know-how and a service-oriented focus, Ducor Petrochemicals is a trusted partner for custom-made products created with polypropylene — but more importantly, Ducor is a resource for imagining better products with plastic.

Great ideas start with a phone call. We sit together and dream up the best solutions for our customers and their production processes. Because we constantly innovate, Ducor can think alongside its partners to create advanced products that anticipate market needs.

For example, phthalate-free products such as DuClear and DuPure expand customer options in an increasingly phthalate sensitive marketplace. An ability to conform to health and safety regulations prescribed by authority agencies makes Ducor a reliable partner. Our extensive line of vegetable-sourced materials gives companies more options and appeal.

Saving time and money is also an advantage. Ducor's PPH high-speed injection molding grades contain nucleation additives which allow fast cycle times. Quick delivery—with no compromise on quality—means a short time-to-market and ultimately better market performance.

We want to be more than just a supplier. For us, personalized service and technological insight are essential to product development solutions of the highest caliber. Our location in the heart of Europe makes Ducor Petrochemicals easy for customers to reach, too. Come talk to us and let's see what we can create together.

DUCOR is part of the



DuPure Polypropylene Homopolymers

FEATURES

- DuPure products are produced with a phthalate-free catalyst system.
- Discover Ducor's newly developed reactor grades.
- DuPure products exhibit improved organoleptic properties.

ABBREVIATIONS

N	Nucleated
C	Clarified
AS	Anti-electrostatic
IM	Injection moulding
CF	Continuous filaments
BCF	Bulked continuous filaments
AGF	Anti Gas Fading
CR	Controlled rheology

	Test Method	DuPure E50	DuPure G86E	DuPure G72TF	DuPure G72	DuPure L50	DuPure L50E	DuPure M10257	DuPure R50	DuPure R87E	DuPure R76	DuPure T76	DuPure T50	DuPure T88E	DuPure U76A	DuPure U76AV	DuPure U76	DuPure W76	DuPure Y76	DuClear U73A
Melt Flow Rate - 230°C/2.16 kg	ISO 1133	2.1	3.0	3.1	3.1	6.0	7.5	8.0	12	12	12	23	25	25	48	48	48	75	100	48
Tensile Modulus - 1 mm/min	ISO 527-2	1450	1500	1850	2050	1500	1500	1800	1550	1550	2000	2000	1500	1500	2000	2000	2000	2000	2000	1900
Charpy Impact Strength, notched - 23°C	ISO 179/1eA	5.0	4.0	4.5	4.0	3.5	3.5	1.7	3.0	3.0	3.3	3.0	3.0	2.5	3.0	3.0	2.7	2.1	2.0	2.0
Vicat Softening Temperature - 10N	ISO 306	154	154	156	158	154	154	154	154	154	158	157	154	154	157	157	157	157	157	155
Heat Deflection Temperature - 0.45 MPa	ISO 75-2	85	85	100	115	85	85	85	85	85	110	105	85	85	105	105	105	105	105	100
Haze - 1 mm	ASTM D1003	60	60	30	30	60	60	60	60	60	70	70	60	60	65	65	70	70	70	11
Addition				N, C, AS	N, C, AS					AGF	N	N		AGF	N, AS	CR, N, AS	N	N	N	C, AS
Application		Extrusion, IM	Thermo-formed parts, tape yarns, mono-filaments, strapping	Thermo-formed packaging	Thermo-formed packaging	IM Caps & closures	Cast films, OPP films, Thermo-formed parts, Tape yarns	Cast films, OPP films with improved stiffness and barrier properties	IM	Staple Fibres, CF-yarns, High-resilience BCF	IM Furniture caps & closures	Furniture, Thin-walled packaging and houseware	IM	CF, BCF, Fine denier staple fibres	Thin-walled packaging	Thin-walled packaging	Thin-walled packaging	IM, Thin-walled packaging, Compounding	IM, Thin-walled packaging, Compounding	Clarified HPP with good haze properties IM, Thin-walled packaging with high transparency

* Charpy Impact Strength, notched ISO 179/1eA 23°C (kJ/m²)

DuPure Polypropylene Block Copolymers



FEATURES

- DuPure products are produced with a phthalate-free catalyst system.
- Discover Ducor's new developed reactor grades.
- DuPure products exhibit improved organoleptic properties.
- DuPure Block Copolymer range offers improved impact/stiffness balance.
- Discover Ducor's new developed PPC high speed thin-walled injection moulding grades containing nucleation additives allowing fast cycle times and high demoulding temperatures.

ABBREVIATIONS

N	Nucleated
AS	Anti-electrostatic
IM	Injection moulding
NB	No Break
CR	Controlled rheology
P	Partial break

	Test Method	DuPure TE76	DuPure SH50	DuPure SL50	DuPure SM76A	DuPure TM76	DuPure SR76	DuPure SR79	DuPure TR76V	DuPure TT79V	DuPure ST77A	DuPure SU76A	DuPure SU77AV	DuPure TU76V	DuPure SW76AV	DuPure SY77AV
Melt Flow Rate - 230°C/2.16 kg	ISO 1133	2.0	4.2	6.0	7.5	7.5	15	15	15	25	30	48	48	48	75	100
Tensile Modulus - 1 mm/min	ISO 527-2	1100	1200	1250	1400	1150	1400	1500	1000	1060	1500	1400	1500	950	1350	1450
Charpy Impact Strength, unnotched	ISO 179/1eU	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
0°C	ISO 179/1eU	NB	140	160	120	NB	100	100	NB	190		100		NB	95	
- 20°C	ISO 179/1eU	NB	80	110	90	NB	50	50	190	160		75		150	71	
- 30°C	ISO 179/1eU	NB	70	95	80	170	45	45	140			65		125	60	
Charpy Impact Strength, notched	ISO 179/1eA	60P	10.5	7.5	9	45P	5	6	43P	17	8.1	6.5	6.0	20P	6.0	5.0
0°C	ISO 179/1eA	12	5.5	4	4	9	3	3	9	8		4.0		9	4.0	
- 20°C	ISO 179/1eA	8	4	3	3.5	7	2.5	2.5	7	6		3.2		4.5	3.0	
- 30°C	ISO 179/1eA	7	2.5	2.5	2.5	6	2	2	6.5			3.0		4	2.6	
Vicat Softening Temperature - 10N	ISO 306	148	150	151	151	144	151	150	142	145	152	151	152	142	151	151
Heat Deflection Temperature - 0.45	ISO 75-2	80	75	77	90	80	90	95	78	85	97	90	97	78	90	97
Additivation		N			N, AS	N	N	N	CR, N	CR, N	N, AS	N, AS	CR, N, AS	CR, N	CR, N, AS	CR, N, AS
Application		Crates & containers	Crates, containers & closures	IM	Cylindrical containers	Crates & containers, luggage, housewares	Housewares, cylindrical containers and crates, furniture	Housewares, cylindrical containers and crates, furniture	Thin-walled packaging, buckets, housewares	Thin-walled packaging, buckets, housewares	IM, packaging, crates, containers	IM, packaging	Thin-walled packaging, housewares	Thin-walled packaging, housewares	IM, packaging	Thin-walled packaging, housewares

DuClear Polypropylene Random Copolymers



FEATURES

- DuClear products are produced with a phthalate-free catalyst system.
- Discover Ducor’s new developed reactor grades.
- DuClear products exhibit improved organoleptic properties.

ABBREVIATIONS

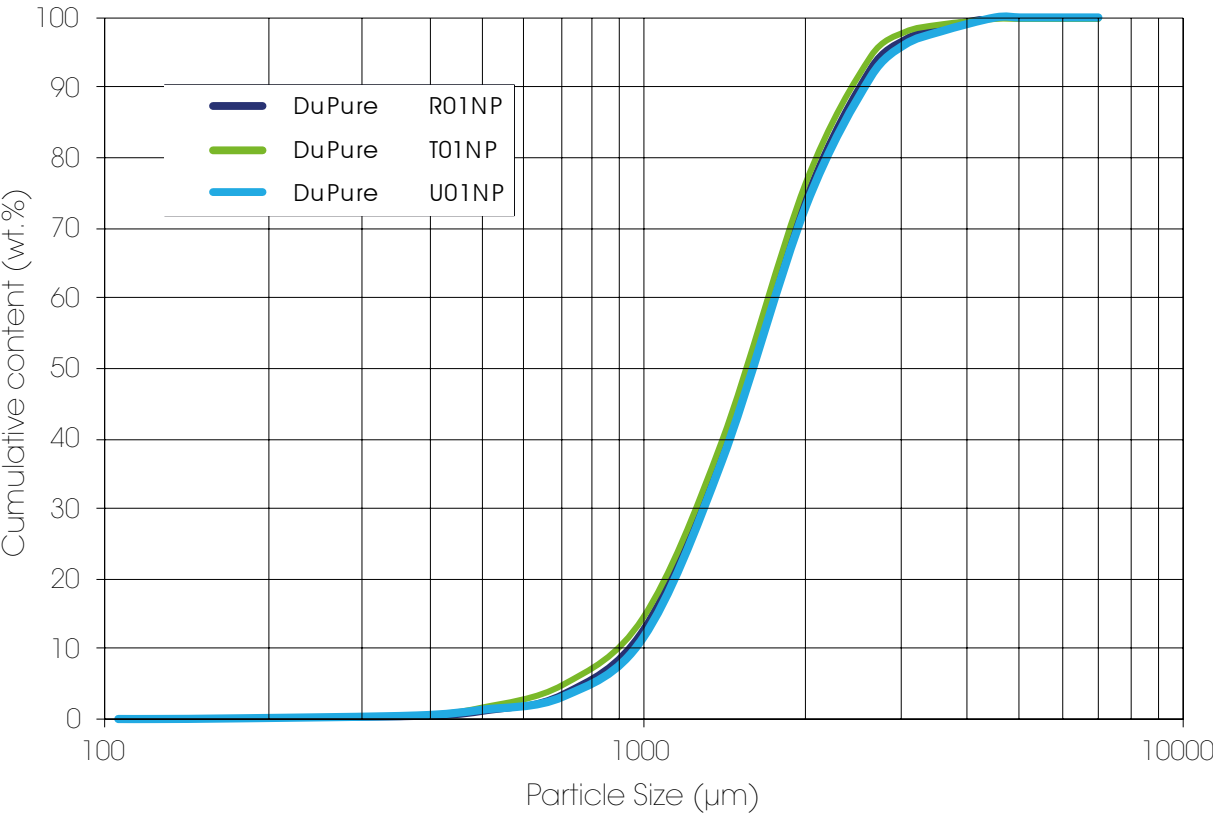
- N Nucleated
- C Clarified
- AS Anti-electrostatic
- CR Controlled rheology

Test Method	DuClear QG80A	DuPure QR50	DuPure QR76AV	DuClear QR80A	DuClear QT80A	DuClear QU85A	DuClear QW85AV	DuClear QY80AV
Melt Flow Rate - 230°C/2.16 kg (g/10min)	ISO 1133	5	11	11	25	40	80	100
Tensile Modulus - 1 mm/min (MPa)	ISO 527-2	1450	1000	1400	1100	1100	1100	1100
Charpy Impact Strength, notched - 23°C (kJ/m²)	ISO 179/1eA	5.7	6.0	4.0	5.5	5.5	4.0	3.8
Vicat Softening Temperature - 10N (°C)	ISO 306	143	130	145	130	130	130	130
Heat Deflection Temperature - 0.45 MPa (°C)	ISO 75-2	96	70	85	75	75	75	75
Haze - 1 mm (%)	ASTM D1003	11	50	41	8	8	8	8
Additivation	C, AS		CR, N, AS	C, AS	C, AS	C, AS	CR, C, AS	CR, C, AS
Application	Thermoforming, High-transparency food packaging, ready meal trays, drinking cups	Injection moulding, caps & closures, compounding, cast film with broad sealing range, lamination films	Injection (stretch blow) moulding, bottles, houseware, caps- & closures	Injection (stretch blow) moulding high-transparency houseware, caps & closures, packaging	High-transparency thin-walled packaging, food containers, boxes & houseware	High-speed injection moulding, high transparency thin-walled packaging, containers and houseware	High-speed injection moulding, high transparency thin-walled packaging, containers and houseware	High-speed injection moulding, high transparency thin-walled packaging, containers and houseware

Non Pelletized Polypropylene Ducor

	Test Method	DuPure G01NP	DuPure R01NP	DuPure T01NP	DuPure U01NP
Melt Flow Rate - 230°C/2.16 kg (g/10min)	ISO 1133	3.5	13	25	50
Tensile Modulus 1 mm/min (MPa)	ISO 527-2	1600	1600	1600	1600
Melting Point DSC (°C)	ISO 3146	163	163	163	163
Density (g/cm3)	ISO 1183	0.91	0.91	0.91	0.91
Additivation		-	-	-	-
Application		Compounding, Masterbatches	Compounding, Masterbatches	Compounding, Masterbatches	Compounding, Masterbatches

PARTICLE SIZE DISTRIBUTION



Non-pelletized polypropylene resins are supplied in the form of unstabilized free flowing powder.

The spherical shape and narrow particle size distribution (with low fines content) makes these non-pelletized resins very suitable for mixing with (liquid-)additives, fillers, and color pigments/concentrates in compounding- or masterbatch production.

Specialties Polypropylene Capilene



IMPACT MODIFIERS / TRANSPARENT IMPACT BLOCK COPOLYMERS, EXTRUSION COATING AND LOW EMISSION GRADES

	Test Method	Capilene CE71E	Capilene CE80B	Capilene CE85B	Capilene CE50E	Capilene CL50E	Capilene CT71A	Capilene CT80A	Capilene CU71A	Capilene CU78AM	Capilene CW85AV
Melt Flow Rate - 230°C/2.16 kg (g/10min)	ISO 1133	1.8	1.8	1.8	2	6	25	25	35	35	55
Flexural Modulus - 5 mm/min (MPa)	ISO 178	850	850	800	500	450	900	900	950	850	950
IZOD Impact Strength, notched - 23°C (kJ/m ²)	ISO 180/1A	55	55	35	45	15	18	18	10	30	7
Vicat Softening Temperature - 10N (°C)	ISO 306	135	131	131	126	118	135	131	135		135
Heat Deflection Temperature - 0.45 MPa (°C)	ISO 75-2	79	74	74	64	60	79	71	79		70
Haze - 1 mm (%)	ASTM D1003	20	15	10	25	35	30	12	30	25	12
Application		Transparent and no blush impact copolymer for EBM and thermoforming of items suitable for low temperature applications, sheet extrusion. Can be used as impact modifier, not compromising transparency.	Transparent and no blush impact copolymer for EBM and thermoforming of items suitable for low temperature applications, sheet extrusion. Can be used as impact modifier, not compromising transparency.	Transparent and no blush impact copolymer for EBM and thermoforming of items suitable for low temperature applications, sheet extrusion. Can be used as impact modifier, not compromising transparency.	Soft and transparent impact copolymer suitable for films and sheet extrusion. Can be used as impact modifier, not compromising transparency gloss and low blush.	Soft and transparent impact copolymer suitable for cast, blown films and injection molding. Can be used as impact modifier, not compromising transparency.	Transparent and no blush impact copolymer suitable for injection molding of tool boxes, organizers, storage boxes and cabinets, food containers, toys and appliances. Can be used as impact modifier, not compromising transparency.	Transparent and no blush impact copolymer suitable for injection molding of tool boxes, organizers, storage boxes and cabinets, food containers, toys and appliances. Can be used as impact modifier, not compromising transparency.	Transparent and no blush impact copolymer suitable for injection molding of tool boxes, organizers, storage boxes and cabinets, food containers, toys and appliances. Can be used as impact modifier, not compromising transparency.	Transparent and no blush impact copolymer suitable for injection molding of thin wall parts for low temperature and freeze applications, like ice-cream containers. Can be used as impact modifier, not compromising transparency.	Transparent and no blush impact copolymer suitable for injection molding of tool boxes, organizers, storage boxes and cabinets, food containers, toys and appliances. Can be used as impact modifier, not compromising transparency.

	Test Method	Capilene MT34EC	Capilene MU32EC	Capilene U50LE	Capilene W50LE	Capilene Y50LE	Capilene SW70LE
Melt Flow Rate - 230°C/2.16 kg (g/10min)	ISO 1133	25	29	35	55	150	65
Flexural Modulus - 5 mm/min (MPa)	ISO 178	1000	1100	1500	1400	1400	1200
IZOD Impact Strength, notched - 23°C (kJ/m ²)	ISO 180/1A	3	3	2,5	2,5	2	6,5
Application		Specialty polypropylene grades for extrusion coating and lamination of paper, paperboards, plastic films, woven and non-woven polypropylene based fabrics.	Specialty polypropylene grades for extrusion coating and lamination of paper, paperboards, plastic films, woven and non-woven polypropylene based fabrics.	New Capilene polypropylene resins provide a unique combination of high flow and low emissions (According to VDA 278) that is favorable for use in automotive interior trims compounds	New Capilene polypropylene resins provide a unique combination of high flow and low emissions (According to VDA 278) that is favorable for use in automotive interior trims compounds	New Capilene polypropylene resins provide a unique combination of high flow and low emissions (According to VDA 278) that is favorable for use in automotive interior trims compounds	New Capilene polypropylene resins provide a unique combination of high flow and low emissions (According to VDA 278) that is favorable for use in automotive interior trims compounds

Low Density Polyethylene & Ipethene

Ducor Petrochemicals offers a range of **low density polyethylene grades** with excellent properties for the most common processing techniques in **film extrusion**.

We market our LDPE products under the tradename **Ipethene** and the offered range fully meets the requirements of the **West European market**.

In our assortment we also offer grades with an **additivation package** for the production of **stretch, blown and shrink** films as well as for **high speed extrusion coating**.

ABBREVIATIONS

SL Slip
AB Anti-Block

	Test Method	Ipethene 111	Ipethene 113	Ipethene 213	Ipethene 320	Ipethene 323	Ipethene 322	Ipethene 470	Ipethene 670	Ipethene 830	Ipethene 900
Melt Flow Rate - 190°C/2.16 kg (g/10min)	ISO 1133	0,7	0,7	1	2	2	2	4.5	7.5	20	50
Density (g/cm3)	ISO 1183	0.920	0.920	0.920	0.920	0.920	0.920	0.917	0.917	0.921	0.916
Additivation			SL AB	SL AB		SL AB	SL AB				
Processing Technique:		Blown Film Extrusion, Blow Molding	Blown Film Extrusion	Blown Film Extrusion, Foaming	Blown Film Extrusion, Cast Film Extrusion, Blow Molding, Foaming, Compounding, Injection Molding	Blown Film Extrusion, Cast Film Extrusion	Blown Film Extrusion, Cast Film Extrusion, Foaming	Blow Molding, Compounding, Extrusion Coating & Lamination	Blow Molding, Compounding, Extrusion Coating & Lamination	Injection Molding	Compounding, Injection Molding

What makes Ducor a reliable partner

RELIABILITY

Multiple sources of monomers, supplied by sea or pipeline, and sufficient raw material basis makes Ducor Petrochemicals your reliable long-term partner for plastics. Our three production lines are completely interchangeable and combinable. So, if one line is down, the two others can bear the entire production load. Even more cost-effective: after each 100-ton run, it's perfectly possible to switch to another product.

FLEXIBILITY

Ducor Petrochemicals' flexibility is not exclusive to the big players on the market. We serve 200 smaller customers a year because we are willing to perform production runs below 500 tons. We're also capable of providing very short turnarounds. Our three production lines enable us to produce three different products at a time and switch lines as needed. Hence, completing orders within two business days is no impossible feat.

INNOVATION

Deliberately structured to facilitate innovation, Ducor Petrochemicals follows the market closely so we can adapt and ensure fast product cycles. Knowledge is highly valued. We work hard to maintain an extensive network of a well-trained, insightful and up-to-date workforce. The investment in expertise and R&D extends beyond our European borders, with e.g. a large R&D department located at our Israel-based sister company.

At Ducor, we're ready and able to take your plastics needs to the next level. We look forward to getting your ideas off the lines and into sales as efficiently and effortlessly as possible.

STRATEGIC LOCATION

Ducor Petrochemicals is strategically located adjacent to the two major world harbors, Rotterdam and Antwerp. Connections to several pipelines makes this location an ideal logistic hub operating right in the heart of Europe.



SUSTAINABILITY CHALLENGES 2030

YESTERDAY > TODAY > TOMORROW

SUSTAINABILITY AT DUCOR



PLANET

- WORK ENVIRONMENTALLY FRIENDLY
- REDUCE RAW MATERIALS AND ENERGY



PEOPLE

- RESPECT FOR THE WHOLE COMMUNITY



PROFIT

- LUCRATIVE INVESTING IN SUSTAINABILITY
- CORRECTLY FINANCED

FULFILLMENTS IN 2020

- CHILLER PROJECT
- TRAINING OPERATORS FOR PLANT EFFICIENCY
- COMPRESSOR OVERHAULING
- TEA WASH TOWER
- KWA ENERGY SAVING STUDY
- A-LINE EXTRUDER/FCM REVISION
- CONTROL CHARTS & VISUAL MANAGEMENT

- REPURPOSING BYPRODUCTS BY A 2ND PARTY

- RESIDUAL PP RECYCLE PROJECT





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