

Technical Data Sheet

DuPure[®] SH 50

Polypropylene Heterophasic Copolymer

Description

DuPure SH 50 is a heterophasic polypropylene copolymer (produced with a phthalate-free catalyst).

Applications

DuPure SH 50 is suitable for: crates, containers and closures.

Quality, Environment and Safety Regulations

Material Safety Data Sheets and other regulatory documents are available on our web site <http://www.ducorchem.com>.

Properties		Method	Typical Value*	Unit
Physical				
Melt Flow Rate	(230 °C / 2.16 kg)	ISO 1133	4.2	g/10 min
Mechanical				
Tensile Modulus	(1 mm/min)	ISO 527-2	1200	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	27	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	7	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 50	%
Tensile Creep Modulus	1000 h, elongation ≤ 0.5 %	ISO 899-1	260	MPa
Shear Modulus		ISO 6721-2	590	MPa
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	10.5	kJ/m ²
	(0 °C)	ISO 179/1eA	5.5	
	(-20 °C)	ISO 179/1eA	4	
	(-30 °C)	ISO 179/1eA	2.5	
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	No Break	kJ/m ²
	(0 °C)	ISO 179/1eU	140	
	(-20 °C)	ISO 179/1eU	80	
	(-30 °C)	ISO 179/1eU	70	
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	10.5	kJ/m ²
	(0 °C)	ISO 180/1A	4	
	(-20 °C)	ISO 180/1A	3	
	(-30 °C)	ISO 180/1A	2	
Ball Indentation Hardness (H 132/30)		ISO 2039-1	53	MPa
Thermal				
Melting Point, DSC		ISO 3146	163	°C
Heat Deflection Temperature	(1.8 MPa)	ISO 75-2	54	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	75	°C
Vicat Softening Temperature	(10 N)	ISO 306	150	°C
Vicat Softening Temperature	(50 N)	ISO 306	71	°C
Other Properties				
Density		ISO 1183	0.91	g/cm ³

* Typical values; not to be construed as specifications

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