

Technical Data Sheet
IPETHENE® 470
 Low Density Polyethylene



Product Description

IPETHENE® 470 is a low-density polyethylene produced by high-pressure autoclave technology, designed for extrusion coating and lamination.

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|----------------------------|---|---|
| Features: | <ul style="list-style-type: none"> No additives Low neck-in Stable web properties Good adhesion to substrates | <ul style="list-style-type: none"> Good moisture barrier Low coating weight Good organoleptic properties |
| Uses: | <ul style="list-style-type: none"> Coating paper, cardboard, aluminium foil, plastic film and fabric | <ul style="list-style-type: none"> Squeezable bottles Master-batches |
| Processing Methods: | <ul style="list-style-type: none"> Blow molding Compounding | <ul style="list-style-type: none"> Extrusion coating and lamination |

| Properties | | Method | Typical Value* | Unit |
|------------------------------------|-----------------|-------------|----------------|-------------------|
| Physical | | | | |
| Melt Flow Rate | (190°C/2.16 kg) | ISO 1133 | 4.5 | g/10 min |
| Density | | ISO 1183-A | 0.917 | g/cm ³ |
| Shore Hardness | 'D' Scale | ISO 868 | 45 | |
| Thermal | | | | |
| Peak Melting Temperature | By DSC | ISO 11357-3 | 107 | °C |
| Vicat Softening Temperature | (10 N) | ISO 306 | 88 | °C |

*Typical values; not to be construed as specifications.

Processing Recommendations

IPETHENE® 470 can be easily processed on conventional extrusion coating lines at melt temperature range 260-330°C.

Health, Quality, Regulations and Safety

This product is not classified as dangerous substance. Material safety data sheets, international standards certificates (e.g. ISO 9001) and other regulatory documents are available on our website. Carmel Olefins products have not been tested and therefore not validated for use in pharmaceutical/medical applications, and their suitability for these uses cannot be guaranteed. It is the customer's responsibility to test and approve their technical and regulatory suitability in order to satisfy themselves as to the particular purpose and application(s).

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Date: May2021

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