

Lubrizol Advanced Materials Pearlbond® D1160 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlbond® D1160 is a linear, aromatic polyurethane, supplied in form of small white granules, which combines a high crystallization rate and high thermoplasticity level. Applications: Pearlbond® D1160 is used for obtaining PU films by extrusion (blown and cast) for solvent-free adhesion, by heat-seal process.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlbond-D1160-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 2781
Brookfield Viscosity	550 - 1500 cP	550 - 1500 cP	15% MEK; MQSA 40A
Melt Flow	10 - 20 g/10 min @Load 5.00 kg, Temperature 190 °C	10 - 20 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133
Storage Temperature	15.0 - 25.0 °C	59.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90.0	90.0	ISO 2781
Tensile Strength at Break	30.0 MPa	4350 psi	Extruded films: approx. 0.2 mm thickness; ISO 527
Elongation at Break	717 %	717 %	Extruded films: approx. 0.2 mm thickness; ISO 527
100% Modulus	0.00500 GPa	0.725 ksi	Extruded films: approx. 0.2 mm thickness; ISO 527
300% Modulus	0.00600 GPa	0.870 ksi	Extruded films: approx. 0.2 mm thickness; ISO 527

Thermal Properties	Metric	English	Comments
Melting Point	90.0 - 95.0 °C	194 - 203 °F	MQSA 70 A
Softening Point	80.0 - 85.0 °C	176 - 185 °F	MQSA 70A

Processing Properties	Metric	English	Comments
Zone 1	115 - 125 °C	239 - 257 °F	
Zone 2	200 - 210 °C	392 - 410 °F	
Zone 3	200 - 210 °C	392 - 410 °F	

Processing Properties	Metric 80 Å°C	English 36 Å°F	Comments
Die Temperature	170 - 180 Å°C	338 - 356 Å°F	

Descriptive Properties	Value	Comments
Crystallization Rate	High	MQSA 12 B
Thermoplasticity	High	MQSA 68 A

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China