

Lubrizol Advanced Materials Pearlthane® ECO D20N55D Thermoplastic Polyurethane (discontinued **)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

PEARLTHANE® ECO D20N55D is a 55 Shore D, High Performance natural TPU based on Renewable Sources with ca. 35% renewable content according to ASTM D6866 for Extrusion and Injection Molding applications. This natural TPU resin features properties similar to standard TPU of same hardness, i.e. excellent mechanical properties and abrasion resistance. Applications: Pearlthane® ECO D20N55D enhances the performance of a wide range of end use products that ranges from extrusion profiles, belts, consumer electronics and sport and leisure applications, among others, where environmentally-friendly materials can bring value to the end product.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-ECO-D20N55D-Thermoplastic-Polyurethane-ndiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D-792
Moisture Absorption at Equilibrium	<= 0.10 %	<= 0.10 %	MQSA 44
Melt Flow	10 g/10 min @Load 21.6 kg, Temperature 195 - 205 °C	10 g/10 min @Load 47.6 lb, Temperature 383 - 401 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D-2240
Tensile Strength	38.06 MPa	5520 psi	ASTM D-412
Tensile Strength, Yield	3.406 MPa @Strain 300 %	494.0 psi @Strain 300 %	ASTM D-412
Elongation at Break	20.03 MPa @Strain 100 %	2905 psi @Strain 100 %	ASTM D-412
Tear Strength	350 %	350 %	ASTM D-412
	160 kN/m	915 pli	DIN 53.515

Thermal Properties	Metric	English	Comments
Melting Point	195 - 205 °C	383 - 401 °F	Temperature range at which MFI = 10 g/10 min at 21.6 kg.; MQSA 111
Glass Transition Temp, Tg	-30.0 °C	-22.0 °F	DSC, 10°C/min; DIN 51.007

Processing Properties	Metric	English	Comments
Feed Temperature	200 °C	392 °F	
Nozzle Temperature	210 °C	410 °F	
Mold Temperature	35.0 °C	95.0 °F	
Drying Temperature	100 - 110 °C @Time 3600 - 7200 sec	212 - 230 °F @Time 1.00 - 2.00 hour	Use of a hot air circulatory, vacuum or desiccant-air dryer is recommended.

Descriptive Properties	Value	Comments
Biobased Content (%)	35	
Compression Zone Temperature	401°F	
Metering Zone Temperature	410°F	

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