

Lubrizol Advanced Materials Pearlthane® ECO D20N88 Thermoplastic Polyurethane (discontinued **)

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

Material Notes:

PEARLTHANE® ECO D20N88 is a 86 Shore A, High Performance natural TPU based on Renewable Sources with ca. 60% renewable content according to ASTM D6866 for Extrusion and Injection Molding applications. This natural low density TPU resin features very good flexibility at low temperatures and very good abrasion resistance. Applications: Pearlthane® ECO D20N88 enhances the performance of a wide range of end use products that ranges from consumer goods 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-D20N88-Thermoplastic-Polyurethane-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D-792
Melt Flow	10 g/10 min @Load 21.6 kg, Temperature 185 - 195 °C	10 g/10 min @Load 47.6 lb, Temperature 365 - 383 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ASTM D-2240
Tensile Strength	25.06 MPa	3635 psi	ASTM D-412
Tensile Strength, Yield	6.03 MPa @Strain 100 %	875 psi @Strain 100 %	ASTM D-412
	9.03 MPa @Strain 300 %	1310 psi @Strain 300 %	ASTM D-412
Elongation at Break	708 %	708 %	ASTM D-412
Tear Strength	92.0 kN/m	525 pli	Die C; ASTM D-624
Abrasion	25	25	mm³ Loss; DIN 53.516

Thermal Properties	Metric	English	Comments
Melting Point	185 - 195 °C	365 - 383 °F	Temperature range at which MFI = 10 g/10 min at 21.6 kg.; MQSA 111
Glass Transition Temp, Tg	-47.8 °C	-54.0 °F	DSC, 50°F/min; DIN 51.007

Processing Properties	Metric	English	Comments
Feed Temperature	195 °C	383 °F	
Nozzle Temperature	205 °C	401 °F	
Zone 1	190 - 200 °C	374 - 392 °F	
Zone 2	205 - 215 °C	401 - 419 °F	
Zone 3	220 - 230 °C	428 - 446 °F	
Zone 4	205 - 215 °C	401 - 419 °F	
Die Temperature	190 - 200 °C	374 - 392 °F	
Mold Temperature	35.0 °C	95.0 °F	
Screw Speed	50 rpm	50 rpm	

Descriptive Properties	Value	Comments
Biobased Content (%)	60	
Compression Zone Temperature	392°F	
Metering Zone Temperature	401°F	

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