

Lubrizol Advanced Materials Pearlthane® ECO D12T55D Thermoplastic Polyurethane

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

Material Notes:

Type: Pearlthane® ECO D12T55D is a high performance bio-based thermoplastic polyurethane. With ca. 29% bio-based content.

Main Application : Extrusion/Moulding

Special Features : Properties similar to standard TPU of same hardness, excellent mechanical properties and abrasion resistance.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-ECO-D12T55D-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ISO 868
Tensile Strength	43.00 MPa	6237 psi	ISO 527-2/5A/500
Elongation at Break	360 %	360 %	ISO 527-2/5A/500
50% Modulus	0.0150 GPa	2.18 ksi	ISO 527-2/5A/500
100% Modulus	0.0180 GPa	2.61 ksi	ISO 527-2/5A/500
300% Modulus	0.0370 GPa	5.37 ksi	ISO 527-2/5A/500
Tear Strength	189 kN/m	1080 pli	Die C; ISO 527-2/5A/500
Abrasion	24	24	mm³ Loss; ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	133 Â°C	271 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Zone 1	200 - 210 Â°C	392 - 410 Â°F	
Zone 2	205 - 215 Â°C	401 - 419 Â°F	
Zone 3	210 - 220 Â°C	410 - 428 Â°F	
Zone 4	215 - 225 Â°C	419 - 437 Â°F	
Adapter Temperature	220 - 230 Â°C	428 - 446 Â°F	5

Die Temperature Processing Properties	220 - 230 Â°C Metric	428 - 446 Â°F English	6 Comments
	220 - 230 Â°C	428 - 446 Â°F	TIP, 7
Dry Time	2.00 hour @Temperature 100 Â°C	2.00 hour @Temperature 212 Â°F	

Descriptive Properties	Value	Comments
Biobased Content (%)	30	
Compression Zone Temperature	428Â°F	
Metering Zone Temperature	437Â°F	

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