

Pearlthane® ECO D12T55D

Thermoplastic Polyurethane Elastomer

Lubrizol Advanced Materials, Inc.

Message:

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.

General Information	
Features	Good Abrasion Resistance
	Renewable Resource Content
Uses	Belts/Belt Repair
	Consumer Applications
	Electrical/Electronic Applications
	Profiles
	Sporting Goods
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Natural Color
Forms	Pellets
Processing Method	Extrusion
	Injection Molding
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 1 sec)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (500 mm)	43.0	MPa	ISO 527-2/5A
Tensile Strain (Break, 500 mm)	360	%	ISO 527-2/5A
Abrasion Resistance	24.0	mm ³	ISO 4649-A
Biobased Content	29	%	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 527-2
100% Strain, 500 mm	18.0	MPa	
300% Strain, 500 mm	37.0	MPa	
Tear Strength ²	190	kN/m	ISO 34-1
Extrusion	Nominal Value	Unit	
Drying Temperature	100	°C	

Drying Time	2.0	hr
Cylinder Zone 1 Temp.	200 to 210	°C
Cylinder Zone 2 Temp.	205 to 215	°C
Cylinder Zone 3 Temp.	210 to 220	°C
Cylinder Zone 4 Temp.	215 to 225	°C
Adapter Temperature	220 to 230	°C
Die Temperature	220 to 230	°C

NOTE		
1.	Type 5	
2.	Method Ba, Angle (Unnicked)	

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