

Lubrizol Advanced Materials Pearlthane® ECO D12T80 Thermoplastic Polyurethane

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

Material Notes:

Type : Pearlthane® ECO D12T80 is a high performance bio-based thermoplastic polyurethane. With ca. 42% bio-based content. Main

Application : Injection 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-D12T80-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ISO 868
Tensile Strength	33.00 MPa	4786 psi	ISO 527-2/5A/500
Elongation at Break	604 %	604 %	ISO 527-2/5A/500
50% Modulus	0.00400 GPa	0.580 ksi	ISO 527-2/5A/500
100% Modulus	0.00400 GPa	0.580 ksi	ISO 527-2/5A/500
300% Modulus	0.00900 GPa	1.30 ksi	ISO 527-2/5A/500
Tear Strength	84.0 kN/m	479 pli	ISO 34-1B
Abrasion	20	20	mm ³ Loss; ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	84.0 Â°C	183 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 Â°C	104 Â°F	
Nozzle Temperature	210 Â°C	410 Â°F	
Zone 1	190 Â°C	374 Â°F	
Zone 2	200 Â°C	392 Â°F	
Zone 3	200 Â°C	392 Â°F	

Zone 4 Processing Properties	200 Â°C Metric	392 Â°F English	Comments
Dry Time	3.00 hour	3.00 hour	
	@Temperature 100 Â°C	@Temperature 212 Â°F	

Descriptive Properties	Value	Comments
Biobased Content (%)	44	ASTM D-6866
Compression Zone Temperature	385Â°F	
Metering Zone Temperature	390Â°F	

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