

Lubrizol Advanced Materials Pearlthane® ECO 12T95 Thermoplastic Polyurethane

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

Material Notes:

Type : Pearlthane® ECO 12T95 is a high performance bio-based thermoplastic polyurethane. With ca. 32% bio-based content.Main

Application : Injection MouldingSpecial Features : Excellent mechanical properties and abrasion resistance.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-ECO-12T95-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ISO 868
Tensile Strength	35.99 MPa	5220 psi	ISO 527-2/5A/500
Elongation at Break	415 %	415 %	ISO 527-2/5A/500
50% Modulus	0.0100 GPa	1.45 ksi	ISO 527-2/5A/500
100% Modulus	0.0120 GPa	1.74 ksi	ISO 527-2/5A/500
300% Modulus	0.0280 GPa	4.06 ksi	ISO 527-2/5A/500
Tear Strength	142 kN/m	811 pli	ISO 34-1B
Abrasion	28	28	mm³ Loss; ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	107 Â°C	225 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 Â°C	104 Â°F	
Nozzle Temperature	215 - 225 Â°C	419 - 437 Â°F	
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	210 - 220 Â°C	410 - 428 Â°F	

Processing Properties	3.00 hour Metric	3.00 hour English	Comments
	@Temperature 100 Â°C	@Temperature 212 Â°F	

Descriptive Properties	Value	Comments
Biobased Content (%)	32	
Compression Zone Temperature	401Â°F	
Metering Zone Temperature	410Â°F	

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