

Pearlthane® ECO 12T95

Thermoplastic Polyurethane Elastomer

Lubrizol Advanced Materials, Inc.

Message:

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

Main Application : Injection Moulding

Special Features : Excellent mechanical properties and abrasion resistance.

General Information			
Features	Good Abrasion Resistance		
	Renewable Resource Content		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 1 sec)	95		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (500 mm)	36.0	MPa	ISO 527-2/5A
Tensile Strain (Break, 500 mm)	420	%	ISO 527-2/5A
Abrasion Resistance	28.0	mm³	ISO 4649-A
Biobased Content	32	%	ASTM D6866
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 527-2
100% Strain, 500 mm	12.0	MPa	
300% Strain, 500 mm	28.0	MPa	
Tear Strength ²	140	kN/m	ISO 34-1
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0	hr	
Rear Temperature	200 to 210	°C	
Middle Temperature	205 to 215	°C	
Front Temperature	210 to 220	°C	
Nozzle Temperature	215 to 225	°C	
Mold Temperature	40.0	°C	
NOTE			
1.	Type 5		
2.	Method Ba, Angle (Unnicked)		

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