

Pearlthane® ECO D12T90

Thermoplastic Polyurethane Elastomer

Lubrizol Advanced Materials, Inc.

Message:

Type : Pearlthane® ECO D12T90 is a high performance bio-based thermoplastic polyurethane.

With ca. 38% bio-based content.

Main Application : Injection Moulding

Special Features : Very good flexibility at low temperatures and very good abrasion resistance.

General Information			
Features	Good Abrasion Resistance		
	Low Temperature Flexibility		
	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	1.15	g/cm³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 1 sec)	91		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (500 mm)	39.0	MPa	ISO 527-2/5A
Tensile Strain (Break, 500 mm)	470	%	ISO 527-2/5A
Abrasion Resistance	35.0	mm³	ISO 4649-A
Biobased Content	38	%	ASTM D6866
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 527-2
100% Strain, 500 mm	9.00	MPa	
300% Strain, 500 mm	25.0	MPa	
Tear Strength ²	120	kN/m	ISO 34-1
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Rear Temperature	190 to 200	°C	
Middle Temperature	195 to 205	°C	
Front Temperature	200 to 210	°C	
Nozzle Temperature	205 to 215	°C	
Mold Temperature	40.0	°C	
NOTE			

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

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