

Pearlthane® ECO D12T90E

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Type: Pearlthane® ECO D12T90E is a high performance bio-based thermoplastic polyurethane. With ca. 38% bio-based content.

Main Application : Extrusion

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

General Information			
Features	Good Abrasion Resistance		
	Renewable Resource Content		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Sporting Goods		
Appearance	Natural Color		
Processing Method	Extrusion		
	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	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	mm ³	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
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Cylinder Zone 1 Temp.	190 to 200	°C	
Cylinder Zone 2 Temp.	195 to 205	°C	
Cylinder Zone 3 Temp.	200 to 210	°C	

Cylinder Zone 4 Temp.	200 to 210	°C
Adapter Temperature	205 to 215	°C
Die Temperature	205	°C

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

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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