

Pearlthane® ECO D12T85

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Type : Pearlthane® ECO D12T85 is a high performance bio-based thermoplastic polyurethane. With ca. 46% bio-based content.

Main Application : Injection Moulding

Special Features : Properties similar to standard TPU of same hardness, 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	1.15	g/cm³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 1 sec)	85		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (500 mm)	35.0	MPa	ISO 527-2/5A
Tensile Strain (Break, 500 mm)	400	%	ISO 527-2/5A
Abrasion Resistance	20.0	mm³	ISO 4649-A
Biobased Content	46	%	ASTM D6866
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 527-2
100% Strain, 500 mm	6.00	MPa	
300% Strain, 500 mm	22.0	MPa	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Rear Temperature	195	°C	
Middle Temperature	200	°C	
Front Temperature	210	°C	
Nozzle Temperature	210	°C	
Mold Temperature	40.0	°C	
NOTE			
1.	Type 5		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any

infringement occurs, please contact us immediately.

Recommended distributors for this material

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

