## Pearlthane® 91T85

Thermoplastic Polyurethane Elastomer Lubrizol Advanced Materials, Inc.

## Message:

Pearlthane ® 91T85 is an aliphatic TPU, supplied in colourless natural pellets. In addition to typical TPU properties like outstanding abrasion loss, our PEARLTHANE ® 91T85 offers excellent colour stability upon UV exposure. PEARLTHANE ® 91T85 features a low density, fast processing and excellent elasticity properties. It has been specially designed for injection moulding process.

Pearlthane® 91T85 is especially recommended for injection moulding applications such as automotive parts and a variety of high performance technical parts where short cycle times and complete UV resistance are required.

General Information				
Features	Low density			
	High elasticity			
	Good UV resistance			
	Fast molding cycle			
	Good color stability			
	aliphatic			
Uses	Engineering accessories			
	Application in Automobile Field			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Colorless			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity				
	1.11	g/cm³	ASTM D792	
20°C	1.11	g/cm³	ISO 2781	
Moisture Content		%	Internal method	
Abrasion Loss	30.0	mm³	ISO 4649	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A)	88		ASTM D2240, ISO 868	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress			ASTM D412, ISO 527	
100% strain	5.50	МРа	ASTM D412, ISO 527	
300% strain	9.00	МРа	ASTM D412, ISO 527	
Tensile Strength (Yield)	27.0	МРа	ASTM D412, ISO 527	
Tensile Elongation (Break)	650	%	ASTM D412, ISO 527	
Thermal	Nominal Value	Unit	Test Method	
Melting Temperature <sup>1</sup>	140 - 150	°C	Internal method	

Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	1.0 - 2.0	hr	
Rear Temperature	150	°C	
Middle Temperature	160	°C	
Front Temperature	165	°C	
Nozzle Temperature	165	°C	
Mold Temperature	35.0	°C	
Screw L/D Ratio	23.0:1.0		
Injection instructions			

Closing force: 30 tonsScrew diameter: 30 mmMaximum hydraulic pressure: 210 barMould: Plaque 120x120x2 mm

NOTE

Temperature at which MFI = 10 g/10 min @ 21.6 kg

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## Recommended distributors for this material

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