

Pearlthane® D91T86

Thermoplastic Polyurethane Elastomer

Lubrizol Advanced Materials, Inc.

Message:

Pearlthane® D91T86 is an aliphatic TPU, supplied in colourless natural pellets. In addition to typical TPU properties like outstanding abrasion loss, our PEARLTHANE® D91T86 offers excellent colour stability upon UV exposure. PEARLTHANE® D91T86 features a low density, fast processing and excellent elasticity properties. It has been specially designed for injection moulding process. Pearlthane® D91T86 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		
	Good wear resistance		
	aliphatic		
Uses	Engineering accessories		
	Application in Automobile Field		
Appearance	Colorless		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.13	g/cm ³	ASTM D792
20°C	1.13	g/cm ³	ISO 2781
Moisture Content		%	Internal method
Abrasion Loss	22.0	mm ³	ISO 4649
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240, ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412, ISO 527
100% strain	6.40	MPa	ASTM D412, ISO 527
300% strain	10.6	MPa	ASTM D412, ISO 527
Tensile Strength (Yield)	30.0	MPa	ASTM D412, ISO 527
Tensile Elongation (Break)	800	%	ASTM D412, ISO 527

Injection	Nominal Value	Unit
Drying Temperature	80.0 - 90.0	°C
Drying Time	1.0 - 2.0	hr
Rear Temperature	185	°C
Middle Temperature	205	°C
Front Temperature	210	°C
Nozzle Temperature	215	°C
Mold Temperature	30.0	°C
Screw L/D Ratio	23.0:1.0	

Injection instructions

Closing force: 50 tonsScrew diameter: 30 mmMaximum hydraulic pressure: 210 barMould: Plaque 120x120x2 mm

NOTE

1. @ 20°C

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