

Pearlthane® 11T75D

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Type : Pearlthane® 11T75D is a polycaprolactone copolyester-based thermoplastic polyurethane.

Main Application : Injection Moulding

Special Features : Extremely hardness.

General Information			
Features	High Hardness		
Uses	Engineering Parts		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Colorless		
	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 2781
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 1 sec)	77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (500 mm)	50.0	MPa	ISO 527-2/5A
Abrasion Resistance	50.0	mm ³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	230	kN/m	ISO 34-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	47.0	°C	ISO 306/A50
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0	hr	
Rear Temperature	215	°C	
Middle Temperature	220	°C	
Front Temperature	225	°C	
Nozzle Temperature	225	°C	
Mold Temperature	40.0	°C	
NOTE			

1. Method Ba, Angle (Unnicked)

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