

Lubrizol Advanced Materials Pearlthane® D91T86 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Type : Pearlthane® D91T86 is a aliphatic-based thermoplastic polyurethane. Main Application : Injection Moulding
Special Features : Low density, fast processing and excellent elasticity properties. Information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-D91T86-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ISO 868
Tensile Strength	30.00 MPa	4351 psi	ISO 527-2/5A/500
Elongation at Break	800 %	800 %	ISO 527-2/5A/500
50% Modulus	0.00600 GPa	0.870 ksi	ISO 527-2/5A/500
100% Modulus	0.00600 GPa	0.870 ksi	ISO 527-2/5A/500
300% Modulus	0.0110 GPa	1.60 ksi	ISO 527-2/5A/500
Tear Strength	110 kN/m	628 pli	ISO 34-1B
Abrasion	22	22	[mm ³]; ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 Â°C	185 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 Â°C	104 Â°F	
Nozzle Temperature	215 Â°C	419 Â°F	
Zone 1	185 Â°C	365 Â°F	
Zone 2	205 Â°C	401 Â°F	
Zone 3	210 Â°C	410 Â°F	
Zone 4	210 Â°C	410 Â°F	

Processing Properties	2.00 hour Metric	English ^{ur}	Comments
Dry Time	@Temperature 80.0 Â°C	@Temperature 176 Â°F	

Descriptive Properties	Value	Comments
Compression Zone	205Â°C	
Metering Zone	210Â°C	

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