

## Lubrizol Advanced Materials Pearlthane® D91T80 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

### Material Notes:

Type : Pearlthane® D91T80 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-D91T80-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-D91T80-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	ISO 868
Tensile Strength	35.03 MPa	5080 psi	ISO 527-2/5A/500
Elongation at Break	700 %	700 %	ISO 527-2/5A/500
50% Modulus	0.00400 GPa	0.580 ksi	ISO 527-2/5A/500
100% Modulus	0.00400 GPa	0.580 ksi	ISO 527-2/5A/500
300% Modulus	0.00900 GPa	1.31 ksi	ISO 527-2/5A/500
Tear Strength	82.0 kN/m	468 pli	ISO 34-1B
Abrasion	30	30	[mm <sup>3</sup> ]; ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	61.0 Â°C	142 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 Â°C	104 Â°F	
Nozzle Temperature	210 Â°C	410 Â°F	
Zone 1	170 Â°C	338 Â°F	
Zone 2	170 Â°C	338 Â°F	
Zone 3	175 Â°C	347 Â°F	
Zone 4	175 Â°C	347 Â°F	

Processing Properties	3.00 hour Metric	English <sup>ur</sup>	Comments
Dry Time	@Temperature 80.0 Â°C	@Temperature 176 Â°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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