

Lubrizol Advanced Materials PEARLTHANE® 11T65D Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Type : Pearlthane® 11T65D is a polycaprolactone copolyester-based thermoplastic polyurethane. Main Application : Injection

Moulding Special Features : Combining very high hardness with excellent mechanical properties. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-11T65D-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ISO 868

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ISO 2781
Tensile Strength, Yield	35.00 MPa	5076 psi	ISO 527-2/5A/500
Elongation at Break	440 %	440 %	ISO 527-2/5A/500
50% Modulus	0.00190 GPa	0.276 ksi	ISO 527-2/5A/500
100% Modulus	0.02501 GPa	3.628 ksi	ISO 527-2/5A/500
300% Modulus	0.03100 GPa	4.496 ksi	ISO 527-2/5A/500
Tear Strength	210 kN/m	1200 pli	ISO 34-1B
Abrasion	25	25	loss (mm ³); ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	144 Â°C	291 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 Â°C	104 Â°F	
Nozzle Temperature	225 Â°C	437 Â°F	
Zone 1	220 Â°C	428 Â°F	
Zone 2	225 Â°C	437 Â°F	
Zone 3	230 Â°C	446 Â°F	
Zone 4	230 Â°C	446 Â°F	

Processing Properties <small>Dry Time</small>	3.00 hour Metric	3.00 hour English	Comments
	@Temperature 100 Â°C	@Temperature 212 Â°F	

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