

Lubrizol Advanced Materials PEARLTHANE[®] Clear 15N85 Thermoplastic Polyurethane Elastomer

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

Material Notes:

Type : Pearlthane[®] CLEAR 15N85 is a polyether copolymer-based thermoplastic polyurethane. Main Application : Injection

Moulding Special Features : Outstanding colour, a very low yellowness index as well as unique transparency. All information provided by

Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-Clear-15N85-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ISO 868
Tensile Strength, Yield	35.00 MPa	5076 psi	ISO 527-2/5A/500
Elongation at Break	660 %	660 %	ISO 527-2/5A/500
50% Modulus	0.00500 GPa	0.725 ksi	ISO 527-2/5A/500
100% Modulus	0.00601 GPa	0.872 ksi	ISO 527-2/5A/500
300% Modulus	0.01002 GPa	1.453 ksi	ISO 527-2/5A/500
Tear Strength	95.0 kN/m	542 pli	ISO 34-1B
Abrasion	20	20	loss (mm ³); ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	84.0 Â°C	183 Â°F	ISO 306

Processing Properties	Metric	English	Comments
Feed Temperature	40.0 Â°C	104 Â°F	
Nozzle Temperature	200 - 220 Â°C	392 - 428 Â°F	
Zone 1	185 - 200 Â°C	365 - 392 Â°F	
Zone 2	200 - 230 Â°C	392 - 446 Â°F	
Zone 3	210 - 230 Â°C	410 - 446 Â°F	

Processing Properties	Metric	English	Comments
Dry Time	3.00 hour	3.00 hour	
	@Temperature 100 Å°C	@Temperature 212 Å°F	

Descriptive Properties	Value	Comments
Compression Zone	200Å°C	
Metering Zone	195Å°C	

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