

Lubrizol Advanced Materials Pearlthane® Clear 15N60D Thermoplastic Polyurethane (discontinued **)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Polyester-based TPU, supplied in form of translucent, colorless or slightly yellowish pellets, combining very high hardness with excellent mechanical properties and excellent hydrolysis resistance. It is especially advisable for use in producing technical parts by injection molding. Applications: Technical parts, Injection molding industry. Information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-Clear-15N60D-Thermoplastic-Polyurethane-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DIN 53.479
Water Absorption	<= 0.050 %	<= 0.050 %	MQSA 44

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	DIN 53.505
Tensile Strength, Ultimate	54.0 MPa	7830 psi	DIN 53.504
Elongation at Break	410 %	410 %	DIN 53.504
100% Modulus	0.0200 GPa	2.90 ksi	DIN 53.504
Tear Strength	190 kN/m	1080 pli	DIN 53.517
Abrasion	30	30	mm ³ ; DIN 53516
Compression Set	30 %	30 %	70 hrs @ 23°C; DIN 53.517
	30 % @Temperature 70.0 °C	30 % @Temperature 158 °F	24 hrs @ 70°C; DIN 53.517

Thermal Properties	Metric	English	Comments
Melting Point	220 - 230 °C	428 - 446 °F	MQSA 70, Kofler

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 °C	410 °F	Feed Zone

Processing Properties	Metric	English	Comments
Front Barrel Temperature	220 °C	428 °F	Metering Zone
Nozzle Temperature	220 °C	428 °F	
Mold Temperature	45.0 °C	113 °F	
Drying Temperature	100 - 110 °C	212 - 230 °F	

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