

Lubrizol Advanced Materials PEARLTHANE® 11H98 Thermoplastic Polyurethane Elastomer

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

Material Notes:

Type: Pearlthane® 11H98 is a polycaprolactone copolyester-based thermoplastic polyurethane. Main Application :

Extrusion/Moulding Special Features : Combining a unique set of properties such as mechanical properties, chemical resistance and processability for very demanding applications. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-11H98-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	98	98	ISO 868
Hardness, Shore D	52	52	ISO 868
Tensile Strength, Yield	35.06 MPa	5085 psi	ISO 527-2/5A/500
Elongation at Break	600 %	600 %	ISO 527-2/5A/500
50% Modulus	0.0100 GPa	1.45 ksi	ISO 527-2/5A/500
100% Modulus	0.01100 GPa	1.595 ksi	ISO 527-2/5A/500
300% Modulus	0.0190 GPa	2.76 ksi	ISO 527-2/5A/500
Tear Strength	150 kN/m	855 pli	Unnicked; ISO 34-1B
Abrasion	25	25	loss (mm ³); ISO 4649-A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	124 Å°C	255 Å°F	ISO 306

Processing Properties	Metric	English	Comments
Zone 1	200 - 210 Å°C	392 - 410 Å°F	
Zone 2	205 - 215 Å°C	401 - 419 Å°F	
Zone 3	215 - 225 Å°C	419 - 437 Å°F	
Zone 4	220 - 230 Å°C	428 - 446 Å°F	

Adapter Temperature Processing Properties	200 - 230 Å°C Metric	392 - 446 Å°F English	8 Comments
Die Temperature	225 - 235 Å°C	437 - 455 Å°F	6
	225 - 235 Å°C	437 - 455 Å°F	TIP, 7
Dry Time	3.00 hour @Temperature 100 Å°C	3.00 hour @Temperature 212 Å°F	

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