

Lubrizol Advanced Materials Pearlthane® Maxi 12T85E Thermoplastic Polyurethane Elastomer

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

Material Notes:

PEARLTHANE® MAXI 12T85E is a polyester based TPU, supplied in form of transparent, colorless pellets, featuring medium hardness, good mechanical properties and outstanding abrasion resistance. This grade is intended for extrusion applications. Information provided by Merquinsa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-Maxi-12T85E-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Melt Flow	10 g/10 min @Load 21.6 kg	10 g/10 min @Load 47.6 lb	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ASTM D2240
Tensile Strength, Yield	42.08 MPa	6103 psi	ASTM D412
Elongation at Break	580 %	580 %	ASTM D412
100% Modulus	0.00591 GPa	0.857 ksi	ASTM D412
300% Modulus	0.01092 GPa	1.584 ksi	ASTM D412
Abrasion	30	30	[mm ³]. Loss; ISO 4649

Thermal Properties	Metric	English	Comments
Melting Point	180 - 190 Å°C	356 - 374 Å°F	MQSA 114
Glass Transition Temp, Tg	-45.0 Å°C	-49.0 Å°F	DSC, 50Å°F/min; DIN 51.007

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

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44

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