

Lubrizol Advanced Materials PEARLTHANE® 12F75UV Thermoplastic Polyurethane Elastomer

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

Material Notes:

PEARLTHANE® D12F75UV is a UV resistant standard polyester based TPU supplied in form of translucent, colorless or slightly yellowish pellets, featuring a low melting point and very low gel content. Processed by extrusion and compounding. PEARLTHANE® D12F75UV is designed for a wide variety of adhesive film applications requiring excellent adhesion in combination with good heat resistance. This grade can be both cast extruded and blown. All information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-PEARLTHANE-12F75UV-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 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	78	78	ASTM D2240
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM D412
Elongation at Break	620 %	620 %	ASTM D412
100% Modulus	0.00500 GPa	0.725 ksi	ASTM D412
300% Modulus	0.00650 GPa	0.943 ksi	ASTM D412
Tear Strength	155 kN/m	885 pli	ASTM D624 (Die C)
Abrasion	35	35	loss (mm ³); DIN 53.516
Compression Set	30 % @Temperature 22.8 °C, Time 252000 sec	30 % @Temperature 73.0 °F, Time 70.0 hour	ASTM D395
	55 % @Temperature 70.0 °C, Time 86400 sec	55 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	130 - 140 °C	266 - 284 °F	MQSA 111

<i>Glass Transition Temp. Tg</i> Thermal Properties	<i>-30.0 Â°C</i> Metric	<i>-22.0 Â°F</i> English	<i>DSC: 10Â°C/min; DIN 51.007</i> Comments
Processing Properties	Metric	English	Comments
Zone 1	145 - 155 Â°C	293 - 311 Â°F	
Zone 2	155 - 165 Â°C	311 - 329 Â°F	
Zone 3	165 - 175 Â°C	329 - 347 Â°F	
Zone 4	170 - 180 Â°C	338 - 356 Â°F	
Die Temperature	170 - 180 Â°C	338 - 356 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44

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