

Lubrizol Advanced Materials Pearlthane® 12C75 Thermoplastic Polyurethane Elastomer

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

Material Notes:

Pearlthane® 12C75 is a standard polyester based TPU supplied in form of translucent, colorless pellets, specially designed for compounds in which TPU is used as an additive. Features include low softness without plasticizer and a low melting point. Pearlthane® 12C75 is intended for compounding applications of a variety engineering plastic. Please contact our technical service department for detailed information. Information provided by Merquinsa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlthane-12C75-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Melt Flow	10 g/10 min	10 g/10 min	
	@Load 21.6 kg, Temperature 125 - 135 °C	@Load 47.6 lb, Temperature 257 - 275 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	ASTM D2240
Tensile Strength, Yield	20.03 MPa	2905 psi	ASTM D412
Elongation at Break	745 %	745 %	ASTM D412
100% Modulus	0.004006 GPa	0.5810 ksi	ASTM D412
300% Modulus	0.005516 GPa	0.8000 ksi	ASTM D412
Tear Strength	70.1 kN/m	400 pli	ASTM D624 DIE C
Abrasion	25	25	[mm^3]; ISO 4649

Thermal Properties	Metric	English	Comments
Melting Point	125 - 135 °C	257 - 275 °F	MQSA 111
Glass Transition Temp, Tg	-35.6 °C	-32.0 °F	DSC, 50°F/min; ISO 11357-2

Processing Properties	Metric	English	Comments
Zone 1	120 - 130 °C	248 - 266 °F	
Zone 2	130 - 140 °C	266 - 284 °F	

Zone 3 Processing Properties	140 - 150 Â°C Metric	284 - 302 Â°F English	Comments
Zone 4	145 - 155 Â°C	293 - 311 Â°F	
Die Temperature	145 - 155 Â°C	293 - 311 Â°F	
Moisture Content	<= 0.10 %	<= 0.10 %	MQSA 44
Screw Speed	50 rpm	50 rpm	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China