

Lubrizol Estane® 58123 Thermoplastic Polyurethane

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

Material Notes:

Features: High moisture vapor transmission with low water swell and excellent low temperature and elasticity properties. Uses: Blown and flat die/cast film extrusion, injection molding and cable jacketing. Available in Americas, Europe, Middle East, Africa, India and Asia. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-58123-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Vapor Transmission	420 g/m ² /day	27.0 g/100 in ² /day	50% RH; ASTM E96B
	3200 g/m ² /day	206 g/100 in ² /day	90% RH; ASTM D6701
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	36.5 MPa	5290 psi	ASTM D412
Elongation at Break	730 %	730 %	ASTM D412
100% Modulus	0.00340 GPa	0.493 ksi	ASTM D412
300% Modulus	0.00550 GPa	0.798 ksi	ASTM D412
Tear Strength	19.3 kN/m	110 pli	Trouser; ASTM D470
Graves Tear Strength	66.6 kN/m	380 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	17	17	H18, 1000g; ASTM D3389
Tensile Set	6.0 %	6.0 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	135 °C	275 °F	DSC
Glass Transition Temp, Tg	-70.0 °C	-94.0 °F	DSC

Processing Properties	Metric	English	Comments
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Rear Barrel Temperature Processing Properties	190 °C Metric	374 °F English	Injection Comments
Middle Barrel Temperature	199 °C	390 °F	Injection
Front Barrel Temperature	215 °C	419 °F	Injection
Nozzle Temperature	215 °C	419 °F	Injection
Zone 1	171 °C	340 °F	Extrusion
Zone 2	177 °C	351 °F	Extrusion
Zone 3	182 °C	360 °F	Extrusion
Zone 4	188 °C	370 °F	Extrusion
Adapter Temperature	193 °C	379 °F	5, Extrusion
Die Temperature	193 °C	379 °F	Zone 1, 6, Extrusion
	193 °C	379 °F	Zone 2, Extrusion
Melt Temperature	150 °C	302 °F	Kofler
	218 °C	424 °F	Injection
Mold Temperature	15.0 - 32.0 °C	59.0 - 89.6 °F	Injection
Drying Temperature	82.0 °C	180 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

Descriptive Properties	Value	Comments
Volume Swell in Water	1.5%	24hrs, ASTM D471

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