

Lubrizol ESTANE® 58277 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Excellent physical properties, good chemical resistance and wide processing window for extrusion. Uses: Blown and flat die/cast film extrusion and Injection and blow molding. Complies with: FDA 177.1680 and FDA 177.2600 Available in Americas, Europe, Middle East, Africa, India and Asia Information provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58277-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89 - 95	89 - 95	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	62.1 MPa	9010 psi	ASTM D412
	62.1 MPa	9010 psi	Thirty mil sheet immersion
	@Temperature 23.0 °C, Time 0.000 sec	@Temperature 73.4 °F, Time 0.000 hour	
	63.96 MPa	9277 psi	Thirty mil sheet immersion
	@Temperature 23.0 °C, Time 1.30e+6 sec	@Temperature 73.4 °F, Time 360 hour	
	65.02 MPa	9430 psi	Thirty mil sheet immersion
	@Temperature 23.0 °C, Time 2.42e+6 sec	@Temperature 73.4 °F, Time 672 hour	
	65.02 MPa	9430 psi	Thirty mil sheet immersion
	@Temperature 23.0 °C, Time 5.011e+6 sec	@Temperature 73.4 °F, Time 1392 hour	
Elongation at Break	450 %	450 %	ASTM D412
100% Modulus	0.00970 GPa	1.41 ksi	ASTM D412
300% Modulus	0.0290 GPa	4.21 ksi	ASTM D412
Tear Strength	33.3 kN/m	190 pli	Trouser; ASTM D470
Graves Tear Strength	114 kN/m	650 pli	Die C; ASTM D624

Taber Abrasion, mg/1000 Cycles Mechanical Properties	2.6 Metric	2.6 English	H18, 1000g; ASTM D3389 B Comments
Tensile Set	17 %	17 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	
	140 °C	284 °F	Kofler
Glass Transition Temp, Tg	-20.0 °C	-4.00 °F	

Optical Properties	Metric	English	Comments
Haze	1.1 %	1.1 %	65 mil between glass; ASTM D1003

Processing Properties	Metric	English	Comments
Zone 1	177 °C	351 °F	Extrusion
Zone 2	182 °C	360 °F	Extrusion
Zone 3	188 °C	370 °F	Extrusion
Zone 4	193 °C	379 °F	Extrusion
Adapter Temperature	199 °C	390 °F	5, Extrusion
Die Temperature	199 °C	390 °F	Zone 1, Extrusion
	199 °C	390 °F	Zone 2, Extrusion
Drying Temperature	104 °C	219 °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 Ethanol	12%	24 h, 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