

Lubrizol ESTANE® 58215 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: Excellent physical properties, hydrolysis resistance and improved temperature resistance. Wide processing window for extrusion. Uses: Blown and flat die/cast film extrusion, Injection and blow molding. 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-58215-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87 - 93	87 - 93	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	65.5 MPa	9500 psi	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412
100% Modulus	0.00900 GPa	1.31 ksi	ASTM D412
300% Modulus	0.0229 GPa	3.32 ksi	ASTM D412
Flexural Modulus	0.0972 GPa	14.1 ksi	ASTM D790
Tear Strength	29.8 kN/m	170 pli	ASTM D470
Graves Tear Strength	105 kN/m	600 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	4.5	4.5	H18, 1000g; ASTM D3389 B
Tensile Set	20 %	20 %	200% elongation; ASTM D412/D638

Thermal Properties	Metric	English	Comments
Melting Point	170 °C	338 °F	Kofler
	175 °C	347 °F	DSC
Glass Transition Temp, Tg	-40.0 °C	-40.0 °F	DSC

Optical Properties	Metric	English	Comments
--------------------	--------	---------	----------

Haze	23 %	23 %	pressed between glass; ASTM D1003
Optical Properties	Metric	English	Comments

Processing Properties	Metric	English	Comments
Zone 1	182 °C	360 °F	Extrusion
Zone 2	188 °C	370 °F	Extrusion
Zone 3	193 °C	379 °F	Extrusion
Zone 4	199 °C	390 °F	Extrusion
Adapter Temperature	204 °C	399 °F	Extrusion
Die Temperature	204 °C	399 °F	Zone 1, Extrusion
	204 °C	399 °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 Water	1.8%	24h, 23°C; 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