

Estane® 58215 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® 58215 is a 90A aromatic Polyether-Based Thermoplastic Polyurethane (TPU).
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.

General Information			
Features	Aroma		
	Workability, good		
	Hydrolysis resistance		
Uses	Blown Film		
	Blow molding applications		
	cast film		
Agency Ratings	FDA 21 CFR 177.1680		
	FDA 21 CFR 177.2600		
	NSF 61		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Blow film		
	Blow molding		
	Extrusion		
	cast film		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	87 - 93		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	43.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Set (200% Strain)	20	%	ASTM D412
Tensile Stress			ASTM D412
100% strain, 0.762mm	9.00	MPa	ASTM D412
300% strain, 0.762mm	22.9	MPa	ASTM D412

Tensile Strength (Break, 0.762 mm)	65.5	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	450	%	ASTM D412
Tear Strength			
0.762 mm ¹	105	kN/m	ASTM D624
Cracking	29	kN/m	ASTM D470
Aging	Nominal Value	Unit	Test Method
Change in Volume (23°C, 24 hr, in water)	1.8	%	ASTM D471
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-40.0	°C	DSC
Melting Temperature	175	°C	DSC
Kofler Melting Temperature	170	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze ²	23	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	182	°C	
Cylinder Zone 2 Temp.	188	°C	
Cylinder Zone 3 Temp.	193	°C	
Cylinder Zone 4 Temp.	199	°C	
Adapter Temperature	204	°C	
Melt Temperature	202	°C	
Die Temperature	204	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80			
NOTE			
1.	C mould		
2.	Pressed between glass		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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