

EstaGrip® ST 80A TPE

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: EstaGrip® ST 80A TPE is an 80A Polyether-Type Thermoplastic Polyurethane.

Features: Low durometer soft feel for excellent grip; outstanding adhesion

Uses: Injection Molding - Overmolding

General Information			
UL YellowCard	E106426-218382		
Features	Good adhesion		
	Soft		
	Hardness, low		
Uses	overmolding		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	77 - 83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	45.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 0.762mm	3.70	MPa	ASTM D412
300% strain, 0.762mm	6.70	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	22.8	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	750	%	ASTM D412
Tear Strength ¹ (0.762 mm)	68.6	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-51.0	°C	DSC
Injection	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	218	°C	
Middle Temperature	221	°C	
Front Temperature	227	°C	

Nozzle Temperature	227	°C
Processing (Melt) Temp	227	°C
Injection instructions		
Air Dew Point: -40°C		
NOTE		
1.	C mould	

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