

Estaloc® 59600 RETPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estaloc® 59600 RETPU is a Polyester-Type Reinforced Engineered Thermoplastic (RETP).
Features: Fast Cycling, Dimensional Stability, Durability, Aesthetics, Low Temperature Impact
Uses: Injection Molding

General Information			
UL YellowCard	E106426-218378		
Filler / Reinforcement	Filler		
Features	Durable		
	Fast Molding Cycle		
	Good Dimensional Stability		
	Low Temperature Impact Resistance		
	Pleasing Surface Appearance		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 5 sec)	77 to 83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (0.762 mm)	5490	MPa	ASTM D638
Tensile Strength (0.762 mm)	96.0	MPa	ASTM D638
Tensile Elongation (Break, 0.762 mm)	13	%	ASTM D638
Flexural Modulus (0.762 mm)	4490	MPa	ASTM D790
Flexural Strength (0.762 mm)	126	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 0.762 mm	180	J/m	
23°C, 0.762 mm	430	J/m	
Injection	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 to 4.0	hr	
Dew Point	-40.0	°C	
Suggested Max Moisture	0.020	%	
Rear Temperature	216	°C	
Middle Temperature	227	°C	

Front Temperature	238	°C
Nozzle Temperature	243	°C
Processing (Melt) Temp	243	°C
Injection Pressure	69.0 to 103	MPa
Injection Rate	Slow-Moderate	
Holding Pressure	35.0 to 69.0	MPa
Back Pressure	0.345	MPa
Screw Speed	30 to 80	rpm

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Recommended distributors for this material

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