

Estaloc® 59600 RETPU

Lubrizol Advanced Materials, Inc. - Thermoplastic Polyurethane Elastomer (Polyester)

Wednesday, November 6, 2019

General Information

Product Description

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			
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Filler / Reinforcement	• Filler		
Features	 Durable Fast Molding Cycle	Good Dimensional StabilityLow Temperature Impact Resistance	Pleasing Surface Appearance
RoHS Compliance	 RoHS Compliant 		
Forms	 Pellets 		
Processing Method	Injection Molding		

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	1.66		ASTM D792	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus (0.0300 in)	797000	psi	ASTM D638	
Tensile Strength (0.0300 in)	13900	psi	ASTM D638	
Tensile Elongation (Break, 0.0300 in)	13	%	ASTM D638	
Flexural Modulus (0.0300 in)	652000	psi	ASTM D790	
Flexural Strength (0.0300 in)	18300	psi	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact			ASTM D256	
-40°F, 0.0300 in	3.4	ft·lb/in		
73°F, 0.0300 in	8.0	ft·lb/in		
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D, 5 sec)	77 to 83		ASTM D2240	

Processing Information			
njection	Nominal Value	Unit	
Drying Temperature	219	°F	
Drying Time	2.0 to 4.0	hr	
Dew Point	-40	°F	
Suggested Max Moisture	0.020	%	
Rear Temperature	421	°F	
Middle Temperature	441	°F	
Front Temperature	460	°F	
Nozzle Temperature	469	°F	

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Injection	Nominal Value Unit
Processing (Melt) Temp	469 °F
Injection Pressure	10000 to 14900 psi
Injection Rate	Slow-Moderate
Holding Pressure	5080 to 10000 psi
Back Pressure	50.0 psi
Screw Speed	30 to 80 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.