

EsterGlas™ 27

Thermoplastic Polyester

Plastic Selection Group, Inc.

Message:

EsterGlas™ 27 is a newly modified Polyester Hybrid resin that combines crystal clarity and rigidity with superior toughness.

General Information			
Features	Good Stiffness		
	Good Toughness		
	High Clarity		
Agency Ratings	FDA 21 CFR 177.1630		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	947	MPa	ASTM D638
Tensile Elongation (Break)	82	%	ASTM D638
Flexural Modulus	2590	MPa	ASTM D790
Flexural Strength (Yield)	79.3	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	68.3	°C	ASTM D648
Vicat Softening Temperature	80.6	°C	ASTM D1525 ¹
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	62.8	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	260 to 271	°C	
Middle Temperature	266 to 282	°C	
Front Temperature	271 to 288	°C	
Nozzle Temperature	266 to 282	°C	
Processing (Melt) Temp	271 to 291	°C	
Mold Temperature	32.2 to 48.9	°C	
Back Pressure	0.345 to 1.38	MPa	

Screw Speed	80 to 120	rpm
NOTE		

1. Loading 1 (10 N)

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Recommended distributors for this material

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