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Product Data Sheet

EsterGlas™

Product Description: EsterGlas™ is a Clear APET resin that combines crystal clarity and rigidity with superior toughness.

Typical Material Properties

General Properties	Test Method / Cert.	Typical Values
Specific Gravity	ASTM D 792	1.34
Mold Shrinkage	ASTM D 955	.004 in
Food Contact Acceptable	FDA 21 CFR 177	Compliant

Mechanical Properties

Tensile Modulus	ASTM D 638	947.2 MPa (137,378 psi)
Tensile Elongation	ASTM D 638	81.5%
Flexural Modulus	ASTM D 790	2592.4 MPa (375,990 psi)
Flexural Strength @ Yield	ASTM D 790	79.3 MPa (11,508psi)
Rockwell Hardness	ASTM D 785	

Thermal Properties

Deflection Temp. [@ 0.455 MPa (66psi)]	ASTM D 648	155°F (68.2°C)
Vicat Softening Temp. @ 1KG Load	ASTM	177°F (80.4)
Flammability Classification [3.2 mm (.125 in.)]	UL 94	V-2

Additional: Dishwasher safe

Recommended Processing

Drying Temperature	4-6 hours@300°F (148.9°C)
Rear Temperature	500-520 °F (260-271°C)
Middle Temperature	510-540 °F (266-282°C)
Front Temperature	520-550 °F (271-288°C)
Nozzle/Die Head Temperature	510-540 °F (266-282°C)
Processing (Melt) Temp	520-555 °F (271-291°C)
Mold Temperature	80 - 90 °F (27-32°C)
Back Pressure	50-200 psi (0.34-1.38 MPa)
Screw Speed	40-80 rpm

The information provided above is based upon typical values. Typical values are intended only as guides. Each customer is responsible for determining whether products and information in this document are appropriate for the customer's use. **NO GUARANTEES OR WARRANTIES ARE EXPRESSED OR IMPLIED.**