STYRON™ 685F

General Purpose Polystyrene Resin

Trinseo

Message:

STYRON™ 685F is a general purpose polystyrene resin with high heat resistance, high stiffness and strength. It is recommended for both extrusion and injection molding applications. Main Characteristics: High heat Applications: Foam sheet Household ware Complies with U.S. FDA 21 CFR 177.1640 Consult Regulations for details.

General Information				
Features	High Heat Resistance			
	High Stiffness			
	High Strength			
Uses	General Purpose			
	Sheet			
Agency Ratings	FDA 21 CFR 177.1640 2			
Forms	Pellets			
Processing Method	Extrusion			
	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.04	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.2	g/10 min	ASTM D1238	
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength			ASTM D638	
Yield, Compression Molded	41.4	MPa		
Yield, Injection Molded	55.2	MPa		
Break, Compression Molded	41.4	MPa		
Break, Injection Molded	55.2	MPa		
Tensile Elongation			ASTM D638	
Break, Compression Molded	1.0	%		
Break, Injection Molded	2.0	%		
Flexural Modulus			ASTM D790	
Compression Molded	3100	MPa		

Injection Molded	3240	MPa	
Flexural Strength			ASTM D790
Compression Molded	72.4	MPa	
Injection Molded	103	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, Compression Molded	11	J/m	
23°C, Injection Molded	21	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	81.0	°C	
1.8 MPa, Annealed	101	°C	
Vicat Softening Temperature	108	°C	ASTM D1525
CLTE - Flow	7.6E-5	cm/cm/°C	ASTM D696

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

