

Polimeri Europa Edistir RT 461F Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

High impact, heat resistant polystyrene with good stiffness. Recommended for improving the thermal performance of injection moulded technical parts which are submitted to high temperature in service. RT 461F is certified BSI 415/94 acc. IEC65-20-2 at 2.5 mm. Designation: Thermoplastics ISO 2897-PS-I,M,093-06-07-18Applications: Examples of application are cabinet and back cover for TV sets, electrical appliances, ventilator housings. RT 461F is certified UL94 HB "all colors" at 1.5 mm (UL file E83071). This grade in its natural version complies by composition with the requirements set by the main Regulations for plastic materials intended for food contact (including the EEC Directive 90/128 and subsequent amendments). Information provided by Polimeri Europa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Edistir-RT-461F-Polystyrene.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ISO 60
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	24 hours - 23°C; ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	Internal Method
Melt Flow	4.0 g/10 min @Load 5.00 kg, Temperature 200 °C	4.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	80	80	ISO 2039/2
Tensile Strength at Break	31.0 MPa	4500 psi	50 mm/min; ISO 527
Tensile Strength, Yield	32.0 MPa	4640 psi	50 mm/min; ISO 527
Elongation at Break	50 %	50 %	50 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
Flexural Strength	55.0 MPa	7980 psi	2 mm/min; ISO 178
Izod Impact, Notched	0.900 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	1.69 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ISO 180/4A
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Thickness 4.00 mm, Temperature -30.0 °C	2.38 ft-lb/in ² @Thickness 0.157 in, Temperature -22.0 °F	ISO 180/1A

Mechanical Properties	Metric	English	Comments
	7.50 kJ/m ²	3.57 ft-lb/in ²	ISO 180/1A
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D 696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	ISO 8302
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	120°C/h; ASTM D 648
Vicat Softening Point	94.0 °C	201 °F	50 N - 50°C/h; ISO 306/B
	103 °C	217 °F	10 N - 50°C/h; ISO 306/A
Flammability, UL94	HB	HB	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Glow Wire Test	650 °C	1200 °F	IEC 60695-2-1
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.00e+15 ohm-cm	7.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.50e+15 ohm	1.50e+15 ohm	IEC 60093
Dielectric Constant	2.5	2.5	IEC 60250
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	65.0 kV/mm	1650 kV/in	IEC 60243
Dissipation Factor	0.00030	0.00030	IEC 60250
	@Frequency 50 Hz	@Frequency 50 Hz	
Comparative Tracking Index	500 V	500 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 260 °C	410 - 500 °F	Injection Molding
Mold Temperature	20.0 - 60.0 °C	68.0 - 140 °F	Injection Molding

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