

Polimeri Europa Edistir RK 451G Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

UL94 V-0, polybromobiphenylether (PBBE) free, flame retarded, high impact polystyrene. This grade combines medium flow, heat resistance and good light stability for injection moulding of technical parts. Designation: Thermoplastics ISO 2897-PS-I,M,088-06-04-

18Applications: Printers and copiers, ventilators, TV back covers, business machines, monitor cabinets.RK 451G may be supplied in natural or colored version upon request. This grade is certified UL94 V-0 at 1.5 mm "all colors" and UL94-5VA at 6.0 mm "all colors" in the foamed version at density from 0.86 to 1.16 g/cm³ (UL file E83071).Information provided by Polimeri Europa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Edistir-RK-451G-Polystyrene.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ISO 60
Density	1.15 g/cc	0.0415 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	5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	50 mm/min; ISO 527
Tensile Strength, Yield	23.0 MPa	3340 psi	50 mm/min; ISO 527
Elongation at Break	50 %	50 %	50 mm/min; ISO 527
Tensile Modulus	1.95 GPa	283 ksi	1 mm/min; ISO 527
Flexural Strength	31.0 MPa	4500 psi	2 mm/min; ISO 178
Izod Impact, Notched	0.800 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ISO 180/4A
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Thickness 4.00 mm, Temperature 23.0 °C	2.86 ft-lb/in ² @Thickness 0.157 in, Temperature 73.4 °F	ISO 180/1A

Thermal Properties	Metric	English	Comments
	90.0 µm/m-°C	50.0 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 20.0 °C	English @ Temperature 68.0 °F	ASTM D 698 Comments
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)	85.0 °C	185 °F	120°C/h; ASTM D 648
Vicat Softening Point	90.0 °C	194 °F	50 N - 50°C/h; ISO 306/B
	98.0 °C	208 °F	10 N - 50°C/h; ISO 306/A
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL94
Glow Wire Test	850 °C @Thickness 1.60 mm	1560 °F @Thickness 0.0630 in	IEC 60695-2-1

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 @Frequency 50 Hz	2.5 @Frequency 50 Hz	IEC 60250
Dielectric Strength	26.0 kV/mm	660 kV/in	IEC 60243
Dissipation Factor	0.00040 @Frequency 50 Hz	0.00040 @Frequency 50 Hz	IEC 60250
Comparative Tracking Index	400 V	400 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 230 °C	374 - 446 °F	Injection Molding
Mold Temperature	20.0 - 60.0 °C	68.0 - 140 °F	Injection Molding
Drying Temperature	70.0 °C	158 °F	For 2 hours

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