

Polimeri Europa EDISTIR RK0414 High Impact Polystyrene (HIPS) (discontinued **)

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

Material Notes:

Symbol according to ISO 1043-1: S/B Designation: Thermoplastic ISO 2897-SB,M,088-03-04-23 UL94 V-0, polybromobiphenylether (PBBE) free, flame retarded high impact polystyrene with excellent light stability. This grade combines medium flow and heat resistance for injection molding of technical parts. Applications: Computer housings, fan and ventilators, printers, copiers and electrical appliances. Unfilled. Suitable for Injection Molding. Supplied as pellets. Contains release agent. ISO data. Information provided by Enichem Polimeri Europa now has Enichem's plastics businesses. This grade is no longer in the product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-EDISTIR-RK0414-High-Impact-Polystyrene-HIPS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	
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	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.0 MPa	4210 psi	50 mm/min
Elongation at Break	40 %	40 %	Nominal
Elongation at Yield	1.5 %	1.5 %	50 mm/min
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	
	5.50 J/cm ² @Temperature -30.0 °C	26.2 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	
	0.350 J/cm ² @Temperature -30.0 °C	1.67 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	76.0 °C	169 °F	
Vicat Softening Point	90.0 °C	194 °F	50°C/hr; 50N

Thermal Properties	^{V-0} Metric	^{V-0} English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	
Surface Resistance	$\geq 1.00\text{e}+15$ ohm	$\geq 1.00\text{e}+15$ ohm	
Dielectric Constant	2.5	2.5	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	65.0 kV/mm	1650 kV/in	
Dissipation Factor	0.00040	0.00040	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	400 V	400 V	

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