

Polimeri Europa EDISTIR N1461 Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Symbol according to ISO 1043-1: PS Designation: Thermoplastic ISO 1622-PS,M,085-03 High molecular weight general purpose polystyrene with good mechanical strength. Well suitable for injection molding of complex items which require good toughness and improved elasticity. Applications: Typical injection molding application is the CD box.Unfilled. Suitable for Injection Molding. Supplied as pellets. Contains release agent.ISO data. Information provided by EnichemPolimeri 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-N1461-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	41.0 MPa	5950 psi	5 mm/min
Elongation at Break	2.0 %	2.0 %	5 mm/min
Tensile Modulus	3.25 GPa	471 ksi	1 mm/min
Charpy Impact Unnotched	1.50 J/cm ²	7.14 ft-lb/in ²	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	79.0 °C	174 °F	
Vicat Softening Point	90.0 °C	194 °F	50°C/hr; 50N
Glass Transition Temp, Tg	89.0 °C	192 °F	10°C/min test
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Manufacturer specifies 'transparent' but doesn't quantify.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm	$\geq 1.00 \times 10^{15}$ ohm	
Dielectric Constant	2.5	2.5	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	70.0 kV/mm	1780 kV/in	
Dissipation Factor	0.00020	0.00020	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	400 V	400 V	

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