

Polimeri Europa EDISTIR PD RR745E 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,G,088-03-07-12 Environmental stress cracking resistant (ESCR) HIPS. It combines high impact strength with high chemical resistance to oils, fats and chemical agents. Developed in particular for the fridge sector where hydrocarbons are used as blowing agents for PU insulating foams. This grade is suitable for extrusion/thermoforming and injection molding. Delivered in ropund pellets, this material can be also supplied in cylindrical pellets as Edistir PD RR740E. Applications: Typical applications are inner liners and frames for refrigerators and packaging containers for fatty foods.Unfilled. Suitable for Injection Molding, Sheet Extrusion, Blow Molding, Casting, Thermoforming. 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-PD-RR745E-High-Impact-Polystyrene-HIPS-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|-------------------------|
| Density | 1.04 g/cc | 0.0376 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 | 16.0 MPa | 2320 psi | 50 mm/min |
| Elongation at Break | >= 50 % | >= 50 % | Nominal |
| Elongation at Yield | 2.0 % | 2.0 % | 50 mm/min |
| Tensile Modulus | 1.35 GPa | 196 ksi | 1 mm/min |
| Charpy Impact Unnotched | NB | NB | |
| Charpy Impact, Notched | 0.900 J/cm ² | 4.28 ft-lb/in ² | |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|----------------------------|--------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 77.0 °C | 171 °F | |
| Vicat Softening Point | 90.0 °C | 194 °F | 50°C/hr; 50N |
| Flammability, UL94 | HB @Thickness 1.50 mm | HB @Thickness 0.0591 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 | 0.00030 | 0.00030 | |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Comparative Tracking Index | 500 V | 500 V | |

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