

Resirene Resirene® 8450 High Impact Polystyrene (Chemical Resistant)

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

Material Notes:

Features:Low FlowChemical ResistantMechanical StrengthFDA Rating: 21 CFR

177.1640Applications:Extrusion/ThermoformingRegistration LinersExtruded SheetInformation provided by US distributor Calsak Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resirene-Resirene-8450-High-Impact-Polystyrene-Chemical-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
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	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	21.4 MPa	3100 psi	ASTM D638
Tensile Strength, Yield	18.3 MPa	2650 psi	ASTM D638
Elongation at Break	63 %	63 %	ASTM D638
Tensile Modulus	1.862 GPa	270.1 ksi	ASTM D638
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	0.5 in.; ASTM D256
	0.960 J/cm	1.80 ft-lb/in	0.125 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM D648
Flammability, UL94	HB	HB	

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