TOTAL Polystyrene Impact 6540

High Impact Polystyrene

TOTAL Refining & Chemicals

Message:

POLYSTYRENE IMPACT 6541 is an easy flowing, high impact polystyrene with a good balance of mechanical and thermal properties. This resin combines physical properties such as the flow necessary for large or complex mouldings, the impact resistance for good mechanical properties in thin wall sections and good thermal properties for articles subjected to elevated temperatures in use. The combination of properties also offers high productivity. POLYSTYRENE IMPACT 6540 satifies the requirements of a wide range of molding applications. Toys, television housings, food packaging, refrigerator, computer keyboards, office equipment, household items...

General Information	
UL YellowCard	E72824-456042
Features	Food Contact Acceptable Good Flow High Heat Resistance High Impact Resistance
Uses	Appliances Business Equipment Computer Components Food Packaging Household Goods Television Housings Toys
Agency Ratings	EC 1907/2006 (REACH) EN 71-3 1994 EU 2002/72/EC
Forms	Pellets

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Apparent Density	0.60	g/cm³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	12	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	
Water Absorption (23°C, 24 hr)	< 0.10	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	78		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2
Yield, 23°C, Injection Molded	25.0	MPa	

Break, 23°C, Injection Molded	20.0	MPa	
Tensile Strain (Break, 23°C, Injection Molded)	45	%	ISO 527-2
Flexural Modulus (23°C, Injection Molded)	2100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (23°C, Injection Molded)	9.5	kJ/m^2	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	68.0	°C	
1.8 MPa, Annealed	80.0	°C	
Vicat Softening Temperature			
--	92.0	°C	ISO 306/A50
--	83.0	°C	ISO 306/B50
CLTE - Flow	9.1E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Electric Strength	150	kV/mm	IEC 60243-1

Recommended distributors for this material

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