

TOTAL Polystyrene Impact 5240

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

POLYSTYRENE IMPACT 5240 is high heat resistant, high impact polystyrene for extrusion and injection applications.
Applications
Applications which require high heat resistance coupled with high impact. Hot fill, compounding, razors

General Information			
Features	Impact resistance, high		
	Heat resistance, high		
	Compliance of Food Exposure		
Uses	Composite		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Apparent Density	0.60	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.3	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	76		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1850	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	26.0	MPa	ISO 527-2
Fracture	27.0	MPa	ISO 527-2
Tensile Strain (Break)	50	%	ISO 527-2
Flexural Modulus	1850	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	11	kJ/m ²	ISO 179/1eA
Notched Izod Impact	11	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A

1.8 MPa, not annealed	78.0	°C	ISO 75-2/A
1.8 MPa, annealed	96.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105	°C	ISO 306/A50
--	94.0	°C	ISO 306/B50
CLTE - Flow	9.1E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Dielectric Strength	150	kV/mm	

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