TOTAL Polystyrene Impact 3441

High Impact Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene Impact 3441 is a high heat resistant polystyrene for injection molding application. It is recommended for manufacturing of articles which require good dimensional stability at elevated temperatures.
Applications:
TV Cover
Office Automation
Electrical and Electronic
Toy

General Information			
UL YellowCard	E314268-100063392	E472299-102068889	
Features	Good dimensional stability Heat resistance, high		
Uses	Protective cover Electrical/Electronic Applications Shell Toys		
Agency Ratings	EC 1907/2006 (REACH)		
UL File Number	E314268		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.04	g/cm³	ASTM D792
Apparent Density [1]	0.60	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Spiral Flow [2]	48.0	cm	ASTM D3123
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Water Absorption (24 hr)	0.070	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	99		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 23°C, Injection Molded)	29.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C, Injection Molded)	65	%	ASTM D638
Flexural Modulus (23°C, Injection Molded)	2100	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (23°C, Injection Molded)	95	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	99.0	°C	ASTM D1525 [3]
CLTE - Flow	9.1E-5	cm/cm/°C	ASTM D696
Heat Distortion	81	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Dielectric Strength	150	kV/mm	ASTM D149
Injection	**Nominal Value**	**Unit**	
Rear Temperature	150 - 180	°C	
Middle Temperature	170 - 210	°C	
Front Temperature	190 - 230	°C	
Nozzle Temperature	210 - 240	°C	
Injection instructions			
Zone 4 Temperature: 200 to 240°C			
NOTE			
1.	Bulk Density: Bulk Density of all Natural grades is approximately 0.6 g/cm³		
2.	Mold temperature: 220°C		
3.	速率 A (50°C/h), 压 力1 (10N)		

Recommended distributors for this material

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