

TOTAL Polystyrene Impact 4440H

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

TOTAL POLYSTYRENE 4440H is a high melt flow, high impact polystyrene specially designed for (hard to fill) injection molding applications. Its high fluidity makes it particularly suitable for the molding of large parts and the use of gas injection techniques.

- Applications
- TV Back Cover
 - Office Automation
 - Electrical and Electronic

General Information	
UL YellowCard	E472299-102068894
Features	Impact resistance, high
	High liquidity
Uses	Electrical/Electronic Applications
	TV housing
	Business equipment
Forms	Particle
Processing Method	Gas-Assisted Injection Molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	13	g/10 min	ISO 1133
Spiral Flow ¹	55.0	cm	
Molding Shrinkage	0.40 - 0.70	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.070	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	21.0	MPa	ISO 527-2
Tensile Strain (Break)	60	%	ISO 527-2
Flexural Modulus	1750	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	10	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ISO 306/A50
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Dielectric Strength	150	kV/mm	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	70	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	< 240	°C	
NOTE			
1.	Melt temperature: 220°C		

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