

TOTAL Polystyrene 4440 (AS)

High Impact Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene Impact 4440 is a high flow polystyrene for injection molding application.
It is recommended for manufacturing of articles which require good dimensional stability.
Its high fluidity makes it particularly suitable for molding of large parts and for use with gas injection technique.

Applications:

TV Cover
Office Automation
Electrical and Electronic

General Information			
UL YellowCard	E314268-100036313	E472299-102068893	
Features	Good dimensional stability		
	High liquidity		
Uses	Electrical/Electronic Applications		
	TV housing		
	Business equipment		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Apparent Density	0.60	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238, ISO 1133
Spiral Flow ¹	55.0	cm	ASTM D3123
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Water Absorption			
24 hr	0.070	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.070	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Grade R, 23°C, Injection Molding	99		ASTM D785
R scale, 23°C	99		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C, Injection Molded)	29.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C, Injection Molded)	40	%	ASTM D638, ISO 527-2
Flexural Modulus (23°C, Injection Molded)	2250	MPa	ASTM D790, ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, injection molding	95	J/m	ASTM D256
23°C, injection molding	11	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°C	ISO 306/A50, ASTM D1525 2
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	160 - 200	°C	
Front Temperature	180 - 220	°C	
Nozzle Temperature	210 - 240	°C	
Injection instructions			
Zone 4 Temperature: 200 to 230°C			
NOTE			
1.	Melt temperature: 220°C		
2.	速率 A (50°C/h), 压力1 (10N)		

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