

TOTAL Polystyrene Impact 6351

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

Polystyrene Impact 6351 is a high gloss, easy flow polystyrene for injection molding application.
It is recommended for manufacturing of articles which require glossy surface and good dimensional stability at elevated temperatures.

Applications:

Air Con
Office Automation
Electrical and Electronic
Toy

General Information			
UL YellowCard	E472299-102068895		
Features	Good dimensional stability		
	Highlight		
	Impact resistance, high		
	Good liquidity		
Uses	Electrical/Electronic Applications		
	Business equipment		
	Toys		
Agency Ratings	EC 1907/2006 (REACH)		
UL File Number	E314268		
Forms	Particle		
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)	3.5	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Water Absorption			
Saturation	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)	32.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break, 23°C, Injection Molded)	55	%	ASTM D638, ISO 527-2

Flexural Modulus (23°C, Injection Molded)	2000	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	100	°C	ISO 306/A50, ASTM D1525 1
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Heat Distortion			
--	82	°C	ISO 75-2
--	82	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Dielectric Strength	150	kV/mm	ASTM D149
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	80		ASTM D523
Injection	Nominal Value	Unit	
Rear Temperature	150 - 180	°C	
Middle Temperature	180 - 210	°C	
Front Temperature	210 - 230	°C	
Nozzle Temperature	210 - 250	°C	
Injection instructions			
Zone 4: 210 - 240 °C			
NOTE			

1. 速率 A (50°C/h), 压力1 (10N)

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