

TOTAL Polystyrene 2551

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene Impact 2551 is a high heat resistant, high rigidity polystyrene for injection molding application. It is recommended for manufacturing of articles which require good stiffness.

Applications:

- Audio
- Electrical and Electronic

General Information			
UL YellowCard	E314268-101407112	E472299-102068886	
Features	Rigidity, high		
	Rigid, good		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
Agency Ratings	EC 1907/2006 (REACH)		
UL File Number	E314268		
Processing Method	Injection molding		
Multi-Point Data	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Apparent Density ¹	0.60	g/cm³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Spiral Flow ²	46.0	cm	ASTM D3123
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Water Absorption			
Balance	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)	33.0	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)	2500	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C, injection molding	68	J/m	ASTM D256
23°C, injection molding	7.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ISO 306/A50, ASTM D1525 ³
CLTE - Flow	9.1E-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+13	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 - 250	°C	
Injection instructions			
Zone 4: 200-240 °C			
NOTE			

- | | |
|----|---|
| 1. | Bulk Density: Bulk Density of all Natural grades is approximately 0.6 g/cm ³ |
| 2. | Mold temperature: 220°C |
| 3. | 速率 A (50°C/h), 压力 1 (10N) |

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