TOTAL Polystyrene Compound 9217

High Impact Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene Compound 9217S a super impact polystyrene alloy with high level of stress crack resistance.
It has excellent mechanical properties and good abrasion and tear resistance.
Applications:
Electronics Packaging
Base Resin for Conductive Compound

General Information			
Features	Impact resistance, high Good cracking resistance Good tear strength Good wear resistance		
Uses	Packaging Electrical/Electronic Applications		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.00	g/cm³	ASTM D792
Apparent Density	0.60	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Water Absorption			
Balance	< 0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	< 0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 23°C, Injection Molded)	22.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Yield, 23°C, injection molding	100	%	ASTM D638
Fracture, 23°C, injection molding	100	%	ISO 527-2
Flexural Modulus (23°C, Injection Molded)	1100	MPa	ASTM D790, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C, injection molding	360	J/m	ASTM D256
23°C, injection molding	40	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**

Vicat Softening Temperature	97.0	°C	ISO 306/A50, ASTM D1525 [1]
Heat Distortion			
--	75	°C	ISO 75-2
--	75	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Dielectric Strength (23°C)	160	kV/mm	ASTM D149
Injection	**Nominal Value**	**Unit**	
Rear Temperature	160 - 180	°C	
Middle Temperature	180 - 200	°C	
Front Temperature	190 - 210	°C	
Nozzle Temperature	210 - 230	°C	
Injection instructions			
Zone 4: 200 - 220°C			
NOTE			
1.	速率 A (50°C/h), 压 力1 (10N)		

Recommended distributors for this material

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