TOTAL Polystyrene FT 875 (AS)

High Impact Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene Compound FT875 is a high heat resistant, V1 non-halogenated flame retardant, high impact polystyrene for injection molding application. It is recommended for manufacturing of articles which require good dimensional stability.
Applications:
TV Cover
Office Automation
Electrical and Electronic

General Information			
UL YellowCard	E314268-100069357	E472299-102068921	
Additive	Flame retardancy		
Features	Good dimensional stability Impact resistance, good Heat resistance, high Halogen-free Flame retardancy		
Uses	Electrical/Electronic Applications TV housing Business equipment		
Agency Ratings	EC 1907/2006 (REACH)		
UL File Number	E314268		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.06	g/cm³	ASTM D792
Apparent Density	0.60	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238, ISO 1133
Spiral Flow [1]	35.0	cm	ASTM D3123
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
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			
Grade R, 23°C, Injection Molding	93		ASTM D785
R scale, 23°C	93		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength (Yield, 23°C, Injection Molded)	35.0	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)	2300	MPa	ASTM D790, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C, injection molding	45	J/m	ASTM D256
23°C, injection molding	5.0	kJ/m^2	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	101	°C	ISO 306/A50, ASTM D1525 [2]
CLTE - Flow	8.9E-5	cm/cm/°C	ASTM D696
Heat Distortion			
--	85	°C	ISO 75-2
--	85	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Dielectric Strength (23°C)	160	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (2.50 mm)	V-1		UL 94
Injection	**Nominal Value**	**Unit**	
Rear Temperature	190 - 210	°C	
Middle Temperature	210 - 230	°C	
Front Temperature	220 - 250	°C	
Nozzle Temperature	250 - 280	°C	
Injection instructions			
Zone 4 Temperature: 250 to 260°C			
NOTE			
1.	Melt temperature: 220°C		
2.	速率 A (50°C/h), 压 力1 (10N)		

Recommended distributors for this material

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