

TOTAL Polystyrene Compound 818E

Ignition Resistant Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene Compound 818E is an easy flow, V0 brominated 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	E72824-558698	E472299-102068901	
Additive	Flame retardancy		
Features	Good dimensional stability		
	Impact resistance, good		
	Good liquidity		
	brominated		
	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	1.14	g/cm ³	ASTM D792
Apparent Density	0.70	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	57.0	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)	20.0	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)	1850	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, injection molding	64	J/m	ASTM D256
23°C, injection molding	7.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ISO 306/A50, ASTM D1525 ²
CLTE - Flow	8.9E-5	cm/cm/°C	ASTM D696
Heat Distortion			
--	75	°C	ISO 75-2
--	75	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Dielectric Strength	160	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
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 Temperature: 200 to 220°C			
NOTE			
1.	Melt temperature: 220°C		
2.	速率 A (50°C/h), 压力1 (10N)		

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