

TOTAL Polystyrene 814

High Impact Polystyrene
TOTAL Refining & Chemicals

Message:

Polystyrene Compound 814 is a high heat resistant, 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	E314268-100050924	E472299-102068898	
Additive	Flame retardancy		
Features	Good dimensional stability		
	Impact resistance, good		
	Heat resistance, high		
	brominated		
	Flame retardancy		
Uses	Protective cover		
	Electrical/Electronic Applications		
	Home appliance components		
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
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.5	g/10 min	ASTM D1238
Spiral Flow ¹	47.0	cm	ASTM D3123
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Water Absorption (24 hr)	< 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	93		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C, Injection Molded)	20.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C, Injection Molded)	40	%	ASTM D638
Flexural Modulus (23°C, Injection Molded)	2100	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°C	ASTM D1525 ²
CLTE - Flow	8.9E-5	cm/cm/°C	ASTM D696
Heat Distortion	77	°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			UL 94
1.50 mm	V-0		UL 94
2.50 mm	5VA		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.	Mold temperature: 220°C		
2.	速率 A (50°C/h), 压力1 (10N)		

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