



Description

- TOTAL POLYSTYRENE 818E is an easy flow, V0 brominated flame retardant, high impact polystyrene for injection molding application
- This grade is recommended for manufacturing of articles which require good dimensional stability

Applications

- TV Cover
- Office Automation
- Electric and Electronic

Properties	Method	Unit	Value (*)
Rheological			
Melt Flow Index (200°C/5kg)	ISO 1133	g/10min	9.00
Thermal			
Vicat Softening Point 10N (T° increase = 50°C/h)	ISO 306	°C	90
Coefficient of Linear Thermal Expansion	-	mm/°C	8.90
Mechanical			
Notched Izod Impact Strength	ISO 180	kJ/m ²	8.0
Tensile Strength at Yield	ISO 527	MPa	20
Elongation at Break	ISO 527	%	40
Flexural Modulus	ISO 178	MPa	2000
Rockwell Hardness	ISO 2039	-	R93
Electrical			
Dielectric Strength	-	kV/mm	160
Surface Resistivity	ISO IEC 93	Ohms	>10 ¹³
Others			
Density	ISO 1183	g/cm ³	1.14
Moulding Shrinkage	-	%	0.4-0.7
Water Absorption	ISO 62	%	<0.1
UL 94 Class	UL 94	-	V0 @ 1.6 mm

(*) Data not intended for specification purposes.

*All tests have been carried out at 23°C unless otherwise stated.

*Mechanical properties have been measured on injection molded test specimens.

*Bulk density is approximately 0.6 g/cm³.

General Information

- Processing condition: Temperatures during extrusion/injection should be below 240°C.
- Recommended Pre-dry condition: 70°C for 2 hours.
- Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within six months after delivery provided storage conditions as given in the SDS of our product. SDS may be obtained from the website: www.totalrefiningchemicals.com