

Description

- TOTAL POLYSTYRENE 815R is an easy flow, V0 brominated flame retardant, high impact polystyrene for injection molding application.
- 815R contains a significant level of recycled polystyrene.
- 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	8.00
Thermal			
Vicat Softening Point 10N (T° increase = 50°C/h)	ISO 306	°C	85-95
Coefficient of Linear Thermal Expansion	-	mm/°C	8.90
Mechanical			
Notched Izod Impact Strength	ISO 180	kJ/m ²	7.0
Tensile Strength at Yield	ISO 527	MPa	20
Elongation at Break	ISO 527	%	20
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 @ 1.4 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.