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TOTAL 道达尔
COMMITTED TO BETTER ENERGY

Refining & Chemicals
Polymers Orient

Technical Data Sheet
Compound Polystyrene
Manufactured in China

Description

- TOTAL POLYSTYRENE 822 is an easy flow, V2 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/m²	8.0
Tensile Strength at Yield	ISO 527	MPa	20
Elongation at Break	ISO 527	%	50
Flexural Modulus	ISO 178	MPa	1800
Rockwell Hardness	ISO 2039	-	R93
Electrical			
Dielectric Strength	-	kV/mm	160
Surface Resistivity	ISO IEC 93	Ohms	$>10^{13}$
Others			
Density	ISO 1183	g/cm³	1.10
Moulding Shrinkage	-	%	0.4-0.7
Water Absorption	ISO 62	%	<0.1
UL 94 Class	UL 94	-	V2 @ 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/cm^3.*

General Information

- Processing condition: Temperatures during extrusion/injection should be below 240°C.
- Recommended Pre-dry condition: 70°C for 2 hours.