

Technical Datasheet

DESCRIPTION

Styrolution PS 495N is an impact resistant polystyrene with a good balance of toughness, high flow, heat resistance and high gloss.

FEATURES

- High flow
- Good balance of toughness and heat resistance
- UL 94 HB

APPLICATIONS

- Injection molding
- TV & office equipment components
- Air conditioners
- Water tanks for toilet flushing

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	9.5
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m ²	17
Tensile Stress at Yield, 23° C	ISO 527	MPa	26
Tensile Strain at Yield, 23° C	ISO 527	%	1.5
Tensile Modulus	ISO 527	MPa	2000
Elongation at Break (MD)	ISO 527	%	40
Flexural Strength	ISO 178	MPa	40
Flexural Modulus	ISO 178	MPa	2100
Hardness, Ball Indentation	ISO 2039-1	MPa	74
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50°C/h, 50N)	ISO 306	°C	89
Heat Deflection Temperature A; (annealed, 1.8 MPa)	ISO 75	°C	85
Heat Deflection Temperature B; (annealed, 0.45 MPa)	ISO 75	°C	89
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ (-6)/°C	80
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
Electrical Properties			
Dielectric Constant (100 Hz)	IEC 60250	-	2.5