

DESCRIPTION

Styrolution PS 485N is a high impact grade of polystyrene for extruded sheets with a matte surface.

FEATURES

- Matte surface
- UL 94 HB

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm <sup>3</sup> /10 min	4
<b>Mechanical Properties</b>			
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m <sup>2</sup>	10
Tensile Stress at Yield, 23° C	ISO 527	MPa	23
Tensile Strain at Yield, 23° C	ISO 527	%	1.6
Tensile Modulus	ISO 527	MPa	1650
Elongation at Break (MD)	ISO 527	%	35
Flexural Strength	ISO 178	MPa	32
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50N, 50°C/h)	ISO 306	°C	90
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> (-6)/°C	80
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
<b>Electrical Properties</b>			
Dielectric Constant (100 Hz)	IEC 60250	-	2.5
Dissipation Factor (100 Hz)	IEC 60250	10 <sup>-6</sup> (-4)	4
Dissipation Factor (1 MHz)	IEC 60250	10 <sup>-6</sup> (-4)	4
Volume Resistivity	IEC 60093	Ohm*m	>1E16
Surface Resistivity	IEC 60093	Ohm	>1E13
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1040
Water Absorption, Saturated at 23°C	ISO 62	%	<0.1
Moisture Absorption, Equilibrium 23°C/50% RH	ISO 62	%	< 0.1
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	180 - 260
Mold Temperature Range	ISO 294	°C	45
Injection Velocity	ISO 294	mm/s	200

Typical values for uncolored products