

Styrolution PS 485N

High Impact Polystyrene
INEOS Styrolution Group GmbH

Message:

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

General Information	
UL YellowCard	E108538-100840252
Features	High Impact Resistance
Uses	Packaging
	Sheet
Forms	Granules
Processing Method	Extrusion
	Injection Molding
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	4.00	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	< 0.10	%	
Equilibrium, 23°C, 50% RH	< 0.10	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	23.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	1.6	%	ISO 527-2
Flexural Stress	32.0	MPa	ISO 178

Films	Nominal Value	Unit	Test Method
Tensile Elongation - MD (Break)	35	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ASTM D1525 ¹
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	DIN 52612

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093

Volume Resistivity	> 1.0E+18	ohms·cm	IEC 60093
Dielectric Constant (100 Hz)	2.50		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	4.0E-4		
1 MHz	4.0E-4		
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	45.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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