

Styrolution PS 486N

High Impact Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 486N is a normal flowing, high impact grade that is especially suitable for blends with a high proportion of general purpose polystyrene (preferably Styrolution PS 165N of Styrolution PS 158N for better heat resistance). It is suitable for all kinds of thermoformed packaging.

General Information	
UL YellowCard	E108538-100840253
Features	High Impact Resistance
Uses	Blending
	Cups
	Disposable Tableware
	Food Packaging
Forms	Granules
Processing Method	Extrusion
	Injection Molding

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	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	66.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	24.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	1.5	%	ISO 527-2
Films	Nominal Value	Unit	Test Method
Tensile Elongation - MD (Break)	35	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	83.0	°C	ISO 75-2/B
1.8 MPa, Annealed	74.0	°C	ISO 75-2/A

Vicat Softening Temperature			
--	90.0	°C	ASTM D1525 ¹
--	96.0	°C	ISO 306/A50
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	10.0 to 60.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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