

Styrolution PS 116N/L

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 116N/L is a general purpose polystyrene grade with excellent flow properties and improved heat resistance.

General Information			
Features	General Purpose		
	High Flow		
	High Heat Resistance		
Uses	Cups		
	Disposable Drinkware		
	Thin-walled Packaging		
Forms	Pellets		
Processing Method	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)	23.0	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	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	150	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	40.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	1.5	%	ISO 527-2
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	75.0	°C	ISO 75-2/A
Vicat Softening Temperature	85.0	°C	ASTM D1525 ¹
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.16	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
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 280	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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