

Styrolution PS 168N/L

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 168N/L is a high molecular weight, heat resistant grade with high mechanical strength. It is suitable for physically or chemically expanded extruded sheet. It is also suitable for use as blend component with high impact polystyrene or Styrolux.

General Information			
UL YellowCard	E108538-100092012	E108538-100840238	
Features	General Purpose		
	High Heat Resistance		
	High Molecular Weight		
	High Strength		
Uses	Blending		
	Food Service Applications		
	Sheet		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	1.50	cm³/10min	ISO 1133
Molding Shrinkage	0.30 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	3300	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	59.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	3300	MPa	
1000 hr	2600	MPa	
Flexural Stress	106	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Unnotched Impact Strength (23°C)	< 25	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	98.0	°C	ISO 75-2/B
1.8 MPa, Annealed	86.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	108	°C	ISO 306/A120
--	101	°C	ISO 306/B120
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+14	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	9.0E-5		
1 MHz	5.0E-5		
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 280	°C	
Mold Temperature	40.0	°C	
Injection Velocity	200	mm/sec	
Extrusion	Nominal Value	Unit	
Melt Temperature	< 250	°C	
NOTE			

1. Antwerp Only

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

