

# Polystyrol 168 N

## General Purpose Polystyrene

### BASF Corporation

Product Description			
Polystyrol 168 N is a high molecular, heat resistant grade used where high strength is required. Suitable for physically or chemically expanded extruded sheet. As blend component with high impact Polystyrol or Styrolux.			
General			
Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Foamable	• High Heat Resistance	• High Strength
	• Food Contact Acceptable	• High Molecular Weight	
Uses	• Blending	• Lids	
	• Cups	• Sheet	
Agency Ratings	• BGVO Food Contact, Unspecified Rating	• FDA Food Contact, Unspecified Rating	
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	1.50	cm <sup>3</sup> /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	< 0.10	%	
Equilibrium, 23°C, 50% RH	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3300	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	59.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Strength (23°C)	106	MPa	ISO 178
Shear Modulus (23°C)	1450	MPa	ISO 537
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	< 25	kJ/m <sup>2</sup>	ISO 179/1eU
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	150	MPa	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	86.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	108	°C	ISO 306/A120
--	101	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+18	ohm·cm	IEC 60093
Relative Permittivity			IEC 60250
23°C, 100 Hz	2.50		
23°C, 1 MHz	2.50		
Electric Strength (23°C)	140	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
1.60 mm	HB		
3.20 mm	HB		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 280	°C	
Mold Temperature	10.0 to 60.0	°C	

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

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Saturday, December 26, 2009

**Extrusion Notes**

Flat Film Extrusion Melt Temperature: 210 to 240°C

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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