

Styrolution PS 158N/L

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 158N/L is a heat resistant, rapid freezing general purpose grade. It is suitable for expanded sheet and film; for blends with high impact polystyrene in heat contact applications; for transparent, impact resistant applications in blends with Styrolux.

General Information			
UL YellowCard	E108538-647225	E108538-100840235	
Features	General Purpose		
	High Heat Resistance		
Uses	Blending		
	Film		
	Labware		
	Sheet		
Forms	Pellets		
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)	3.30	cm ³ /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)	55.0	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	103	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	ASTM D1525 ¹
--	101	°C	ASTM D1525 ²
--	106	°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+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 ³	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 280	°C	
Mold Temperature	40.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		
2.	Rate B (120°C/h), Loading 2 (50 N)		
3.	Antwerp Only		

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