

Styrolution PS 165N/L

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 165N/L is a high molecular weight, good flowing grade, often blended with high impact extrusion grades.

General Information	
UL YellowCard	E108538-100729306
Features	General Purpose
	Good Flow
	High Molecular Weight
Uses	Appliance Components
	Blending
	Cups
	Media Packaging
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)	3.40	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)	52.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	3300	MPa	
1000 hr	2600	MPa	
Flexural Stress	86.0	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	84.0	°C	ISO 75-2/B
1.8 MPa, Annealed	76.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	97.0	°C	ASTM D1525 ¹
--	89.0	°C	ASTM D1525 ²
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	7.0E-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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