

Styrolution PS 495F

High Impact Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 495F is a high flow, high impact polystyrene with a good heat resistance and a high stiffness.

General Information			
Features	High Flow		
	High Impact Resistance		
	High Stiffness		
	Medium Heat Resistance		
Uses	Appliance Components		
	Electrical/Electronic Applications		
	Household Goods		
	Housings		
	Printer Parts		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	9.50	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	74.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	26.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	1.5	%	
Break, 23°C	40	%	
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	40.0	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Elongation - MD (Break)	40	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	130	kJ/m ²	
23°C	No Break		
Notched Izod Impact Strength (23°C)	13	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	89.0	°C	ISO 75-2/B
1.8 MPa, Annealed	85.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	98.0	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
CLTE - Flow	1.0E-4	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+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+18	ohms·cm	IEC 60093
Electric Strength ¹ (1.50 mm)	160	kV/mm	IEC 60243-1
Dielectric Constant			
100 Hz	2.50		IEC 60250
1 MHz	2.50		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	4.0E-4		
1 MHz	4.0E-4		
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	45		ASTM D523
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	10.0 to 60.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	Short Time		

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