

Styrolution PS 153F

General Purpose Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 153F is general purpose polystyrene with high heat resistance and good flow properties. Styrolution PS 153F is free of internal lubricants, e.g. zinc stearate.

General Information			
Features	General Purpose		
	Good Flow		
Forms	Granules		
Processing Method	Extrusion		
	Foam Processing		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	7.50	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40 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	3050	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	45.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	1.5	%	ISO 527-2
Flexural Modulus	3250	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	90.0	°C	ISO 75-2/A
Vicat Softening Temperature	101	°C	ISO 306/B120
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.16	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
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 280	°C	

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