

Styrolution PS 641F

High Impact Polystyrene
INEOS Styrolution Group GmbH

Message:

Styrolution PS 641F is high impact polystyrene with high heat resistance.

General Information			
Features	High Heat Resistance		
	High Impact Resistance		
Uses	Automotive Applications		
	Housings		
Forms	Granules		
Processing Method	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)	2.50	cm ³ /10min	ISO 1133
Molding Shrinkage	0.50 to 0.70	%	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	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	28.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	1.7	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	40	%	ISO 527-2
Flexural Stress	44.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	88.0	°C	ISO 75-2/A
Vicat Softening Temperature	96.0	°C	ASTM D1525 ¹
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
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 260	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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