

Jamplast JPGPPSHH

General Purpose Polystyrene

Jamplast, Inc.

Message:

JPGPPSHH is a high heat resistance, high tensile strength and high stiffness, general purpose polystyrene. It is recommended for applications where tensile and melt strength as well as heat resistance properties are important. It is commonly used for extrusion applications such as foam disposables, medical and oriented polystyrene sheet. JPGPPSHH has also been used in consumer electronics and packaging applications.

General Information			
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
	Film Extrusion		
	Foam Extrusion		
	Injection Blow Molding		
	Injection Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2920	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	53.1	MPa	
Break	53.1	MPa	
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	3150	MPa	ASTM D790
Flexural Strength	105	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	21	J/m	ASTM D256
Gardner Impact (23°C)	0.113	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	96.1	°C	
1.8 MPa, Unannealed	83.9	°C	
Vicat Softening Temperature	108	°C	ASTM D1525
CLTE - Flow (-40 to 82°C)	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.47 mm, ALL)	HB		UL 94

Optical	Nominal Value	Unit	Test Method
Refractive Index	1.590		ASTM D542
Transmittance	90.0	%	ASTM D1003
Haze	1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Rear Temperature	177 to 232	°C	
Front Temperature	191 to 260	°C	
Mold Temperature	21.1 to 65.6	°C	
Injection Pressure	34.5 to 276	MPa	
Back Pressure	0.0689 to 3.45	MPa	
Clamp Tonnage	2.8 to 5.5	kN/cm ²	

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