

# Jamplast JPGPPSI

General Purpose Polystyrene

Jamplast, Inc.

Message:

JPGPPSI is a medium heat resistance, medium flow, general purpose polystyrene. It is recommended in applications where a specific balance of flow and tensile properties are important. Its unique additive package makes it a good candidate for some medical and pharmaceutical applications. JPGPPSI has also been used in packaging/disposables applications.

General Information			
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0	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	44.8	MPa	
Break	44.8	MPa	
Tensile Elongation (Break)	1.6	%	ASTM D638
Flexural Modulus	3150	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	16	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	85.6	°C	
1.8 MPa, Unannealed, 3.18 mm	77.2	°C	
Vicat Softening Temperature	99.4	°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 <sup>2</sup>

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