

Jamplast JPHIPSE

High Impact Polystyrene

Jamplast, Inc.

Message:

JPHIPSE is a high impact polystyrene with an excellent balance of flow, toughness, stiffness and heat resistance as compared to other HIPS resins. It is appropriate for extrusion applications where stiffness and toughness combined with trimmability are important. JPHIPSE is also commonly used for deep draw thermoforming and injection molding. A major use of this product is in appliances and housewares as well as food packaging and disposables applications such as cups, lids and serveware.

General Information			
Forms	Pellets		
Processing Method	Coextrusion		
	Injection Blow Molding		
	Injection Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
L-Scale	60		
R-Scale	95		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1650	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	19.3	MPa	
Break	24.1	MPa	
Tensile Elongation ³ (Break)	52	%	ASTM D638
Flexural Modulus ⁴	1910	MPa	ASTM D790
Flexural Strength ⁵	42.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁶			ASTM D256
-18°C, 3.18 mm	64	J/m	
23°C, 3.18 mm	110	J/m	
Gardner Impact (23°C)	18.1	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	87.2	°C	

1.8 MPa, Unannealed, 3.18 mm	73.9	°C	
Vicat Softening Temperature	101	°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
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	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		
4.	Type I, 1.3 mm/min		
5.	Type I, 1.3 mm/min		
6.	0.25 mm Notch Depth		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

