

Jamplast JPLGABSI

Acrylonitrile Butadiene Styrene

Jamplast, Inc.

Message:

Jamplast ABS resins are thermoplastic materials which provide an excellent balance of processability, impact resistance and heat resistance as imparted by the various polymer compositions. Jamplast ABS resins are available in a wide range of melt flow rates, impact strength and heat resistance for both high and low gloss applications manufactured by injection molding, sheet or profile extrusion and thermoforming processes.

Automotive Jamplast ABS resins offer a wide range of gloss, viscosity, impact strength and heat properties for use in numerous automotive applications. Melt flow rates from 1 to 12 g/10 min, impact strengths from 2.5 to 12 ft-lb/in and heat distortion temperatures from 165°F to 190°F are available. Available primarily as natural plus concentrates, Jamplast ABS resins are used in a wide variety of automotive applications including structural instrument panels, consoles, pillars, and exterior trim parts requiring painting and plating.

Jamplast JPLGABSI ABS resin is a high flow, low gloss ABS resin often used in door panels, consoles, and various interior trim.

General Information			
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1790	MPa	ASTM D638
Tensile Strength ² (Yield)	41.4	MPa	ASTM D638
Tensile Elongation ³ (Yield)	3.0	%	ASTM D638
Flexural Modulus ⁴	2070	MPa	ASTM D790
Flexural Strength ⁵	58.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁶			ASTM D256
-18°C, 3.18 mm	80	J/m	
23°C, 3.18 mm	160	J/m	
Instrumented Dart Impact ⁷			ASTM D3763
23°C, 3.18 mm, Peak Energy	32.8	J	
23°C, 3.18 mm, Total Energy	42.9	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	90.6	°C	
1.8 MPa, Unannealed, 3.18 mm	76.7	°C	
Vicat Softening Temperature	104	°C	ASTM D1525
CLTE - Flow	7.4E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	

Suggested Max Moisture	0.10	%
Processing (Melt) Temp	232 to 246	°C
Mold Temperature	26.7 to 48.9	°C
Back Pressure	0.345 to 3.45	MPa
Clamp Tonnage	2.8 to 4.1	kN/cm ²
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	1.5:1.0 to 3.5:1.0	

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
7.	3.39 m/sec

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