Jamplast JPLGABSE

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.
The sheet and thermoforming grades of Jamplast ABS resins provide excellent high and low gloss aesthetics, thermal color stability, heat and impact resistance and stiffness for applications such as luggage, tool cases, burial vault liners, signs and recreation vehicles. Jamplast ABS resins can fill a variety of needs by offering ranges in melt flow rates from 1.0 to 4.0 g/10 min., sheet Izod impacts from 2.5 to 10.5 ft-lb/in and sheet flexural modulus from 285,000 to 300,000 psi.
This resin is the lowest gloss and highest melt flow rate option of our ABS sheet grades. With a melt flow rate of 4.0 g/10 min., JPLGABSE can be used for low gloss, low impact applications where easy processability is desired.

General Information	
Forms	Pellets
Processing Method	Injection Molding
	Profile Extrusion
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.9	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
L-Scale	80		
R-Scale	108		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	1860	MPa	ASTM D638
Tensile Strength [2]			ASTM D638
Yield	30.3	MPa	
Break	31.7	MPa	
Tensile Elongation [3] (Break)	50	%	ASTM D638
Flexural Modulus [4]	2210	MPa	ASTM D790
Flexural Strength [5]	62.1	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-18°C, 3.18 mm [6]	80	J/m	
23°C, 3.18 mm [7]	130	J/m	
Gardner Impact			ASTM D3029
-18°C, 2.54 mm	19.8	J	

23°C, 2.54 mm	22.6	J	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	96.1	°C	ASTM D648
Vicat Softening Temperature	104	°C	ASTM D1525
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.52 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2 to 87.8	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.10	%	
Processing (Melt) Temp	218 to 274	°C	
Mold Temperature	26.7 to 60.0	°C	
Back Pressure	0.345 to 3.45	MPa	
Clamp Tonnage	2.8 to 6.9	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.	2.5E-3 mm Notch Depth		

Recommended distributors for this material

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