

Jamplast Inj-02C ABS

Acrylonitrile Butadiene Styrene

Jamplast, Inc.

Message:

Jamplast Inj-02C ABS is a clear general-purpose injection molding grade of ABS (Acrylonitrile Butadiene Styrene). Typical applications include housings, toys, small appliances, and consumer goods.

General Information			
Features	General Purpose		
Uses	Appliances		
	Consumer Applications		
	General Purpose		
	Housings		
	Toys		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	
Molding Shrinkage - Flow	0.30 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.17 mm)	44.1	MPa	ASTM D638
Tensile Elongation (Break, 3.17 mm)	> 50	%	ASTM D638
Flexural Modulus (3.17 mm)	2140	MPa	ASTM D790
Flexural Strength (Yield, 3.17 mm)	66.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
3.17 mm	120	J/m	
6.35 mm	96	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	80.0	°C	ASTM D648
Vicat Softening Temperature	93.0	°C	ISO 306
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Optical	Nominal Value	Unit	

Transmittance (3000 μm)	90.0	%
Injection	Nominal Value	Unit
Drying Temperature	75.0 to 80.0	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	190 to 230	°C
Mold Temperature	40.0 to 80.0	°C
Injection Pressure	68.5 to 108	MPa
Back Pressure	0.979 to 1.96	MPa
Screw Speed	60 to 90	rpm

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