

Jamplast JPPCABS10

Polycarbonate + ABS

Jamplast, Inc.

Message:

JPPCABS10 engineering resin is a 10% glass reinforced resin designed to provide excellent processability, high heat resistance, and practical toughness. JPPCABS10 engineering resin has been used in automotive interior trim applications.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.6	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40	%	ASTM D955
Water Absorption			ASTM D570
23°C, 24 hr	0.15	%	
Equilibrium, 23°C, 50% RH	0.32	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	48.7	MPa	
Break	50.4	MPa	
Tensile Elongation ² (Break)	4.0	%	ASTM D638
Flexural Modulus	3650	MPa	ASTM D790
Flexural Strength (Yield)	98.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³			ASTM D256
-29°C, 3.18 mm	80	J/m	
23°C, 3.18 mm	230	J/m	
Instrumented Dart Impact ⁴			ASTM D3763
-29°C, 3.18 mm, Total Energy	5.65	J	
23°C, 3.18 mm, Peak Energy	12.4	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	121	°C	
1.8 MPa, Annealed, 3.18 mm	127	°C	
CLTE - Flow (-40 to 82°C)	5.8E-5	cm/cm/°C	ASTM D696
NOTE			

1.	Type I, 51 mm/min
2.	Type I, 51 mm/min
3.	0.25 mm Notch Depth
4.	3.39 m/sec

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