

# Jamplast JPPCABSI

Polycarbonate + ABS

Jamplast, Inc.

Message:

JPPCABSI engineering resin is designed to offer a balance of properties between impact strength, heat resistance and processability. It offers better processability than polycarbonate while offering high impact strength at both room and low temperatures compared to ABS. With a deflection temperature under load (264 psi, unannealed) of 230°F, JPPCABSI also offers high heat resistance compared to ABS. JPPCABSI engineering resin has been used in automotive instrument panel and interior trim applications.

General Information			
Forms	Pellets		
Processing Method	Coextrusion		
	Injection Molding		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.70	%	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)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	53.1	MPa	
Break	44.8	MPa	
Tensile Elongation <sup>2</sup> (Break)	130	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength (Yield)	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>3</sup>			ASTM D256
-40°C, 3.18 mm	430	J/m	
-29°C, 3.18 mm	530	J/m	
23°C, 3.18 mm	730	J/m	
Instrumented Dart Impact <sup>4</sup>			ASTM D3763
-29°C, 3.18 mm, Total Energy	62.1	J	
23°C, 3.18 mm, Total Energy	56.5	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648


1.8 MPa, Unannealed, 3.18 mm	110	°C	
1.8 MPa, Annealed, 3.18 mm	121	°C	
CLTE - Flow (-40 to 82°C)	7.4E-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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Recommended distributors for this material

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