

Advanced Composites CHI-500

Polypropylene
Advanced Composites, Inc.

Message:

Advanced Composites CHI-500 is a polypropylene product. It is available in North America. Typical application areas are: automotive industry.
Features include:
Impact resistance
High stiffness

General Information			
Features	Rigidity, high		
	Impact resistance, high		
	Low temperature impact resistance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	18.9	MPa	ASTM D638
Tensile Elongation ² (Break)	450	%	ASTM D638
Flexural Modulus ³	1060	MPa	ASTM D790
Flexural Strength ⁴	22.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-29°C	120	J/m	ASTM D256
23°C	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	102	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	171	°C	
Middle Temperature	179 - 199	°C	
Front Temperature	216	°C	
Nozzle Temperature	204	°C	
Processing (Melt) Temp	185 - 227	°C	
Mold Temperature	26.7 - 43.3	°C	

Injection Rate	Slow-Moderate	
Cushion	5.00 - 10.0	mm
Injection instructions		
Injection Pressure: 20 to 60% of machine capacityScrew RPM: 1 to 2 secs before mold open		
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	5.0 mm/min	
4.	5.0 mm/min	

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