

OmniCarb™ PC/ABS 1412 CTI

Polycarbonate + ABS

OMNI Plastics, LLC

Message:

Cold Temperature Impact Resistant PC/ABS

General Information			
Features	Low Temperature Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	53.8	MPa	ASTM D638
Tensile Elongation (Break)	130	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength	86.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.18 mm	530	J/m	
23°C, 3.18 mm	750	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	116	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm)	HB		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 to 288	°C	
Middle Temperature	254 to 299	°C	
Front Temperature	260 to 293	°C	
Nozzle Temperature	249 to 293	°C	
Processing (Melt) Temp	260 to 302	°C	
Mold Temperature	37.8 to 93.3	°C	
Back Pressure	0.345 to 0.689	MPa	

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