

# CELEX™ 310HF.B

Polycarbonate Resin

Trinseo

## Message:

CELEX™ 310HF.B glass fiber reinforced polycarbonate Resin is a 10% glass fiber reinforced polycarbonate material. It provides a property balance of easy flow, superior ignition resistance, high rigidity, dimension stability and heat resistance. It provides the injection molded part with good aesthetics.

Main Characteristics:

No Chlorine and Bromine additives

Applications:

Computer enclosures

Electronic accessories and electrical appliances

General Information			
UL YellowCard	E132010-100229433		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Dimensional Stability		
	Good Flow		
	High Heat Resistance		
	High Rigidity		
Uses	Pleasing Surface Appearance		
	Appliances		
	Electrical/Electronic Applications		
	Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.10 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.20 mm, Injection Molded)	80.0	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Injection Molded)	4.0	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	4050	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	120	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating <sup>1</sup> (1.00 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	270 to 310	°C	
Mold Temperature	80.0 to 120	°C	
NOTE			

1.

This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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#### Recommended distributors for this material

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