

# CELEX™ 310HF

Polycarbonate Resin

Trinseo

## Message:

CELEX 310HF is an ignition resistant and glass fiber reinforced polycarbonate resin. It is formulated without the use of brominated and chlorinated flame retardant. CELEX 310HF is designed with superior processability for use in LCD frame and instrument panel.

General Information			
UL YellowCard	E132010-222038		
Filler / Reinforcement	Glass Fiber		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Processability		
Uses	Electrical/Electronic Applications		
	LCD Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	19	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.20 mm, Injection Molded)	69.0	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Injection Molded)	5.0	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	3390	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	88.0	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, 3.20 mm, Injection Molded)	120	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating <sup>1</sup> (1.60 mm)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	

Drying Time	3.0 to 4.0	hr
Rear Temperature	260 to 265	°C
Middle Temperature	265 to 270	°C
Front Temperature	270 to 275	°C
Nozzle Temperature	275 to 280	°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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