

CELEX™ 5200HF

Polycarbonate Resin

Trinseo

Message:

CELEX 5200HF is a non-halogen ignition resistant PC/ABS alloy. It combines the superior physical properties of PC and the excellent processability of ABS. CELEX 5200HF is designed with excellent flow for use in monitor housing and instrument panel.

General Information			
UL YellowCard	E132010-222036		
Features	Flame Retardant		
	Good Processability		
	Halogen Free		
	High Flow		
Uses	Electrical/Electronic Applications		
	Housings		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	19	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2450	MPa	ASTM D638
Tensile Strength (Yield, 3.20 mm, Injection Molded)	55.0	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Injection Molded)	100	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	2600	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	88.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm, Injection Molded	220	J/m	
23°C, 3.20 mm, Injection Molded	750	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm, Injection Molded)	83.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525 ¹
Flammability	Nominal Value		Test Method

Flame Rating ² (1.60 mm)

5VB

UL 94

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	190 to 220	°C
Middle Temperature	200 to 225	°C
Front Temperature	205 to 235	°C
Nozzle Temperature	210 to 235	°C
Mold Temperature	40.0 to 60.0	°C

NOTE

1. Rate B (120°C/h)

This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.
- 2.

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