

CELEX™ 5200HF.IM

Polycarbonate Resin

Trinseo

Message:

CELEX 5200HF.IM advanced resin is an ignition-resistant PC/ABS blend that contains no chlorine or bromine additives. Its superior processing makes it ideal for molding large parts and optimizing cycle time productivity in injection molding operations. This resin is suitable for use in a wide variety of applications in the information technology equipment and consumer electronics markets.

Main Characteristics:

UL 94 V-0 @ 1.5mm

Applications:

TV, monitor and PC enclosures

Adaptors and chargers

General Information			
UL YellowCard	E132010-624692		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
Uses	Electrical/Electronic Applications		
	Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	17	g/10 min	
260°C/5.0 kg	75	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.20 mm, Injection Molded ¹	62.1	MPa	
Break, 3.20 mm, Injection Molded	46.2	MPa	
Tensile Elongation			ASTM D638
Yield, 3.20 mm, Injection Molded	4.0	%	
Break, 3.20 mm, Injection Molded	50	%	
Flexural Modulus (3.20 mm, Injection Molded)	2830	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	97.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm, Injection Molded	93.9	°C	
1.8 MPa, Unannealed, 3.20 mm, Injection Molded	82.2	°C	
Vicat Softening Temperature	108	°C	ASTM D1525 ²
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (1.50 mm)	V-0		UL 94
Oxygen Index ⁴	29	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	79.4 to 90.6	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	60.0 to 90.6	°C	
NOTE			
1.	51 mm/min		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
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