

CELEX™ 5200HF.K

Polycarbonate Resin

Trinseo

Message:

CELEX 5200HF.K is a non-halogen ignition resistant PC/ABS alloy. It combines the superior physical properties of PC and the excellent processability of ABS.

Applications:

ITE enclosures

Instrument panel

General Information			
UL YellowCard	E132010-100982962		
Features	Flame Retardant		
	Good Processability		
	Halogen Free		
Uses	Electrical/Electronic Applications		
	Housings		
	Thin-walled Parts		
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)	18	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)	76.0	°C	ASTM D648

Vicat Softening Temperature	100	°C	ASTM D1525 ¹
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257
Dielectric Strength	26	kV/mm	ASTM D149
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating ²			UL 94
1.40 mm	V-0		
1.50 mm	5VB		
Glow Wire Flammability Index (1.50 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.50 mm)	750	°C	IEC 60695-2-13
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), Loading 1 (10 N)		
	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
2.			

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