

EMERGE™ PC 4330-22

Advanced Resin

Trinseo

Message:

EMERGE™ 4330-22 Advanced Resin is a high-performance polycarbonate resin offering ultraviolet light stability, high heat resistance, toughness, and superior flow. This resin is available in a full range of colors that can be custom tailored to meet your product requirements.

Applications:

Consumer Electronics and Information Technology Equipment

Computer and Electronic Equipment

Portable Electronics

General Information			
UL YellowCard	E206114-228295		
Features	Good Toughness		
	Good UV Resistance		
	High Flow		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.20 mm, Injection Molded)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2340	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.20 mm, Injection Molded	60.0	MPa	
Break, 3.20 mm, Injection Molded	65.5	MPa	
Tensile Elongation (Break, 3.20 mm, Injection Molded)	120	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	2410	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	750	J/m	ASTM D256

Unnotched Izod Impact (23°C, 3.20 mm, Injection Molded)	No Break		ASTM D256
Instrumented Dart Impact ¹ (23°C, 3.20 mm, Injection Molded, Peak Energy)	72.3	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed, 3.99 mm	142	°C	
1.8 MPa, Unannealed, 3.99 mm	126	°C	
1.8 MPa, Annealed, 3.99 mm	139	°C	
CLTE - Transverse (-40 to 82°C)	6.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+17	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.00		
1 MHz	3.00		
Dissipation Factor			ASTM D150
60 Hz	1.0E-3		
1 MHz	2.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating ²			UL 94
1.59 mm	HB		
3.20 mm	HB		
Oxygen Index ³	26	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	260 to 277	°C	
Mold Temperature	71.1 to 93.3	°C	
NOTE			
1.	3.39 m/sec		
2.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
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