

EMERGE™ PC 8330

Advanced Resin

Trinseo

Message:

EMERGE™ PC 8330 advanced resin is a transparent, ultraviolet light resistant and ignition resistant PC resin that contains no chlorinated or brominated nor phosphorous-based additives. It combines mechanical performance and high heat resistance with excellent processing characteristics. It is a transparent material with UL-94 V-0 rating at 2.5 mm.

Applications:

LCD TV Housings

Lighting

General Information			
UL YellowCard	E206114-561196		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Processability		
	Good UV Resistance		
	High Heat Resistance		
Uses	LCD Applications		
	Lighting Applications		
	Television Housings		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (4.00 mm, Injection Molded)	2400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 4.00 mm, Injection Molded	60.0	MPa	
Break, 4.00 mm, Injection Molded	58.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 4.00 mm, Injection Molded	6.0	%	
Break, 4.00 mm, Injection Molded	> 100	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	12	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
3.20 mm, Injection Molded ¹	750	J/m	ISO 180
23°C, Injection Molded	11	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	149	°C	ISO 306/A120
Flammability	Nominal Value	Unit	Test Method
Flame Rating ² (2.50 mm)	V-0		UL 94
Glow Wire Flammability Index ³			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature ⁴			IEC 60695-2-13
1.00 mm	850	°C	
2.00 mm	850	°C	
3.00 mm	850	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance	87.0 to 91.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	260 to 300	°C	
Mold Temperature	70.0 to 100	°C	
NOTE			
1.	Method 4A		
2.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
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