EMERGE™ PC 8330-10

Advanced Resin

Trinseo

Message:

EMERGE™ PC 8330-10 advanced resin is a transparent, ignition resistant PC resin that contains no chlorinated or brominated or phosphorous based additives. This resin combines good mechanical and high heat properties, maintains excellent processability and contains mold release agent. EMERGE™ PC 8330-10 has a UL94 V0 rating at 2.5 mm.
Applications:
A broad range of injection molded applications in the lighting, electronics, electrical and information technology equipment markets.

General Information			
UL YellowCard	E213639-317500		
Additive	Mold Release		
Features	Bromine Free Chlorine Free Flame Retardant Good Processability High Heat Resistance		
Uses	Electrical/Electronic Applications Lighting Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (3.20 mm, Injection Molded)	2400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 3.20 mm, Injection Molded	60.0	MPa	
Break, 3.20 mm, Injection Molded	58.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 3.20 mm, Injection Molded	6.0	%	
Break, 3.20 mm, Injection Molded	> 100	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm, Injection Molded)	750	J/m	ISO 180/4A
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature (1.8 MPa, Unannealed)	125	°C	ISO 75-2/A
Vicat Softening Temperature			
--	151	°C	ISO 306/A120
--	143	°C	ISO 306/B50
Ball Indentation Temperature	> 123	°C	IEC 60598-1
Electrical	**Nominal Value**	**Unit**	**Test Method**
Needle Flame Test (1.50 mm)	Pass		IEC 60695-2-21
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating [1] (2.50 mm)	V-0		UL 94
Glow Wire Flammability Index [2]			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature [3]			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	85.0 to 89.0	%	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.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.
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