

EMERGE™ PC 8230-20

Advanced Resin

Trinseo

Message:

EMERGE™ 8230-20 advanced resin is an opaque, ignition resistant PC resin that contains no chlorinated or brominated or phosphorous based additives. This resin combines good mechanical and high heat properties and maintains excellent processability and contains mold release agent. EMERGE 8230-20 has a UL 94 V-0 rating at 1.5mm and is UV stabilized.

Applications:

Meters

Electrical applications

General Information			
UL YellowCard	E206114-100173343	E213639-100173351	E213639-101021177
	E206114-101021181	E54680-101960393	E54680-101960392
Additive	Mold Release		
	UV Stabilizer		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Processability		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
Appearance	Opaque		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	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 527-2/50
Tensile Stress			
Yield, 4.00 mm, Injection Molded	60.0	MPa	ISO 527-2
Break, 4.00 mm, Injection Molded	58.0	MPa	ISO 527-2/50
Tensile Strain (Break, 4.00 mm, Injection Molded)	100	%	ISO 527-2/50
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
Heat Deflection Temperature (1.8 MPa, Unannealed)	125	°C	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating ² (1.50 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	
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.
3. This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT