

EMERGE™ PC 8600-20

Advanced Resin

Trinseo

Message:

EMERGE™ PC 8600 is a translucent, ignition-resistant and easy flow polycarbonate resin. This resin contains no bromine, chlorine or phosphate additives and is intended to comply with global environmental standards. It has a UL94 flammability rating of V-0 at 1.5mm.

Applications:

A broad range of injection molded applications in the electronics, electrical and information technology equipment markets.

General Information			
UL YellowCard	E54680-469946	E206114-228301	
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Flow		
Uses	Electrical/Electronic Applications		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ISO 1133
Molding Shrinkage	0.50 to 0.70	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 4.00 mm)	123		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
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	%	
Flexural Modulus ¹ (4.00 mm, Injection Molded)	2400	MPa	ISO 178
Flexural Stress ² (4.00 mm, Injection Molded)	94.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	690	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	136	°C	ISO 75-2/B
1.8 MPa, Unannealed	122	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A120
--	143	°C	ISO 306/B50
Ball Indentation Temperature	> 125	°C	IEC 60335-1
CLTE - Flow (-40 to 82°C)	6.5E-5	cm/cm/°C	ASTM D696
RTI Elec	125	°C	UL 746
RTI Imp	125	°C	UL 746
RTI Str	125	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (1.50 mm)	V-0		UL 94
Glow Wire Ignition Temperature ⁴ (1.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index ⁵	35	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	125	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	70.0 to 100	°C	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
4.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
5.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

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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



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