

EMERGE™ PC 8600-7

Advanced Resin

Trinseo

Message:

EMERGE™ PC 8600 is a translucent ignition-resistant polycarbonate resin. This resin contains no bromine, chlorine or phosphate additives and is intended to comply with global environmental standards. It is an easy flow PC resin suitable for use in injection molded applications.

Applications:
Information Technology Equipment
Power adaptors

General Information			
UL YellowCard	E54680-469946	E206114-228301	
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Flow		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0	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)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2210	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.20 mm, Injection Molded	60.0	MPa	
Break, 3.20 mm, Injection Molded	57.9	MPa	
Tensile Elongation			ASTM D638
Yield, 3.20 mm, Injection Molded	6.2	%	
Break, 3.20 mm, Injection Molded	110	%	
Flexural Modulus (3.20 mm, Injection Molded)	2400	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	93.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	750	J/m	ASTM D256

Instrumented Dart Impact ¹ (23°C, 3.20 mm, Injection Molded, Total Energy)	58.8	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	139	°C	
1.8 MPa, Unannealed	127	°C	
Vicat Softening Temperature	149	°C	ASTM D1525 ²
CLTE - Flow (-40 to 82°C)	6.5E-5	cm/cm/°C	ASTM D696
RTI Elec (3.20 mm)	125	°C	UL 746
RTI Imp (3.20 mm)	125	°C	UL 746
RTI Str (3.20 mm)	125	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index ⁴ (1.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index ⁵	35	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	271 to 288	°C	
Mold Temperature	65.6 to 98.9	°C	
NOTE			
1.	3.39 m/sec		
2.	Rate B (120°C/h), Loading 1 (10 N)		
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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