

EMERGE™ 8600ECO-10

Advanced Resin

Trinseo

Message:

EMERGE™ PC 8600ECO-10 Advanced Resin contains 50% post consumer recycled (PCR) polycarbonate complying with IEEE 1680:2006 certified by TÜV Rheinland. It is a translucent and ignition resistant polycarbonate that does not contain chlorine, bromine, or phosphate additives to comply with global environmental standards. This resin combines good mechanical, thermal, and chemical properties while retaining excellent processability.

- Applications
- Electronics and electrical appliances
 - Charges and adaptors enclosures
 - Information technology equipment

General Information			
Recycled Content	Yes,50%		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Processability		
Uses	Business Equipment		
	Electrical Housing		
	Electrical/Electronic Applications		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2800	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.20 mm, Injection Molded	61.0	MPa	
Break, 3.20 mm, Injection Molded	66.0	MPa	
Tensile Elongation			ASTM D638
Yield, 3.20 mm, Injection Molded	5.0	%	
Break, 3.20 mm, Injection Molded	120	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	810	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
1.8 MPa, Unannealed	127	°C	ASTM D648
1.8 MPa, Unannealed	125	°C	ISO 75-2/A
Vicat Softening Temperature			
--	149	°C	ASTM D1525 ¹
--	150	°C	ISO 306/A120
Ball Indentation Temperature	> 125	°C	IEC 60335-1
RTI Elec	125	°C	UL 746
RTI Imp	125	°C	UL 746
RTI Str	125	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.550 mm	V-2		
1.50 mm	V-0		
2.50 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	270 to 300	°C	
Mold Temperature	80.0 to 110	°C	
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		

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