

EMERGE™ PC 8702-10

Advanced Resin

Trinseo

Message:

EMERGE™ PC 8702 Advanced Resin is an ignition-resistant, 20% glass reinforced, polycarbonate resin. This resin contains no bromine, chlorine, or phosphate additives. The resin is designed to meet the German norm DIN VDE-0472/Part 815 (1989) on halogens. It is a medium flow PC resin with a mold release system, intended for injection molding applications.

- Applications:
- Information technology equipment
 - Electrical parts
 - Other structural/internal parts

General Information			
UL YellowCard	E206114-503750	E213639-100879760	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Mold Release		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Medium Flow		
Uses	Electrical/Electronic Applications		
	Structural Parts		
Agency Ratings	DIN VDE 0472 Part 815		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	4000	MPa	ASTM D638
Tensile Strength (Break, 3.20 mm, Injection Molded)	100	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Injection Molded)	4.0	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	5380	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	145	°C	
1.8 MPa, Unannealed	140	°C	
1.8 MPa, Annealed	143	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+14	ohms	ASTM D257
Volume Resistivity (1.80 mm)	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	27	kV/mm	ASTM D149
Dielectric Constant (1.60 mm, 1 MHz)	3.10		ASTM D150
Comparative Tracking Index (3.00 mm)	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹ (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	288 to 316	°C	
Mold Temperature	79.4 to 116	°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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