EMERGE™ PC 8702-15 (AP)

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		
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)	15	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
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.		

Recommended distributors for this material

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