EMERGE™ PC 8702-15 (NA)

Advanced Resin

Trinseo

Message:

EMERGE™ PC 8702 Advanced Resin is an ignition-resistant, 20% glass reinforced polycarbonate resin. This resin does not contain chlorine or bromine additives. It is a medium flow PC resin with a mold release system, intended for applications requiring high stiffness. EMERGE PC 8702 has a UL94 V-0 rating at 1.5 mm.
Main Characteristics:
Glass reinforced
Ignition resistant
Applications:
Powered Device Housings
Information technology equipment
Electrical parts
Other structural/internal parts

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	demoulding		
Features	Chlorine Free Medium liquidity Bromine-free Flame retardancy		
Uses	Electrical/Electronic Applications Electrical housing Components Shell		
Forms	Particle		
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 - 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, not annealed	145	°C	ASTM D648
1.8 MPa, not annealed	140	°C	ASTM D648
1.8 MPa, annealed	143	°C	ASTM D648
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] (1.5 mm)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Processing (Melt) Temp	288 - 316	°C	
Mold Temperature	79 - 116	°C	
NOTE			
1.	This rating is not intended to reflect the danger caused by this or any other material under actual fire conditions.		

Recommended distributors for this material

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