EMERGE™ PC 4902

Advanced Resin

Trinseo

Message:

EMERGE™ PC 4902 is a 20% glass fiber reinforced high flow ignition resistant polycarbonate resin. This grade provides flame rating UL 94 V0 at 1.6mm without the use of halogenated additives. It has superior processability and is ideal for structural frame components which are moving towards thinner wall sections.
Main Characteristics:
UL 94 V0 at 1.6 mm
Good Flow
Does not contain halogenated additives
Applications:
LCD Back Light Unit Frame Components
Internal structural parts of Printers, Scanners, Copiers, Multifunction Office Automation Machines

General Information			
UL YellowCard	E206114-633918		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant Good Processability Halogen Free High Flow		
Uses	Business Equipment LCD Applications Structural Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.30	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.15 to 0.25	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 3.20 mm, Injection Molded)	89.0	MPa	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	6100	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	150	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	80	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load (1.8 MPa, Unannealed)	105	°C	ASTM D648
CLTE - Flow	6.6E-5	cm/cm/°C	ASTM D696
Flammability	**Nominal Value**		**Test Method**
Flame Rating [1] (1.60 mm)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	260 to 280	°C	
Middle Temperature	270 to 290	°C	
Front Temperature	270 to 290	°C	
Nozzle Temperature	280 to 300	°C	
Mold Temperature	60.0 to 100	°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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