EMERGE™ PC 4903

Advanced Resin

Trinseo

Message:

EMERGE PC 4903 is a 30% glass fiber reinforced high flow ignition resistant polycarbonate resin. This resin does not contain bromine and chlorine flame retardants. EMERGE PC 4903 is designed with superior processability for use in structural parts of printers, scanners, copiers as well as internal parts for ITE applications.
Applications:
Structural parts of printers, scanners, and copiers
Internal parts of ITE machines

General Information			
UL YellowCard	E206114-509989		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Bromine Free Chlorine Free Flame Retardant Good Processability High Flow		
Uses	Business Equipment Structural Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.46	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6800	MPa	ASTM D638
Tensile Strength (Yield, 3.20 mm, Injection Molded)	116	MPa	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	8400	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	155	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	130	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	ASTM D648

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.00 mm [1]	V-0	
2.00 mm	5VA	

Injection	Nominal Value	Unit
Drying Temperature	110	°C
Drying Time	6.0 to 8.0	hr
Rear Temperature	250 to 260	°C
Middle Temperature	260 to 270	°C
Front Temperature	260 to 280	°C
Nozzle Temperature	271 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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