

EMERGE™ PC 6900

Advanced Resin

Trinseo

Message:

EMERGE™ PC 6900 is a specially designed ignition-resistant polycarbonate alloy. It combines high flow, high heat and high strength together. It is especially suited for thin-wall applications and has excellent high gloss aesthetics. EMERGE PC 6900 has a UL94 V-0 rating at 1.0 mm. This material does not contain chlorine or bromine additives.

Main Characteristics:

Ignition resistant

High Flow

High Gloss

Applications:

Thin-Wall Powered Device Housings

Consumer Electronics

Information technology equipment

Computer housings

General Information			
UL YellowCard	E54680-102811889		
Features	Chlorine Free		
	Highlight		
	High strength		
	High liquidity		
	Heat resistance, high		
	Good appearance		
	Bromine-free		
	Flame retardancy		
Uses	Thin wall parts		
	Electrical/Electronic Applications		
	Electrical housing		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.20 mm, Injection Molded)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength (Yield, 3.20 mm, Injection Molded)	65.0	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Injection Molded)	70	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	2650	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	100	°C	ASTM D648
1.8 MPa, not annealed	90.0	°C	ASTM D648
Vicat Softening Temperature	116	°C	ASTM D1525 ¹
CLTE - Flow	6.6E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating ²			UL 94
0.50 mm	V-2		UL 94
0.8 mm	V-1		UL 94
1.0 mm	V-0		UL 94
2.0 mm	5VB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	91 - 102	°C	
Drying Time	3.0 - 4.0	hr	
Processing (Melt) Temp	221 - 260	°C	
Mold Temperature	71 - 102	°C	
NOTE			
1.	标准 B (120°C/h), 压力 1 (10N)		
2.	This rating is not intended to reflect the danger caused by this or any other material under actual fire conditions.		

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