EMERGE™ PC/ABS 7890

Advanced Resin

Trinseo

Message:

EMERGE™ PC/ABS 7890 Advanced Resin is an ignition-resistance PC/ABS alloy contains no chlorine or bromine additives. This resin provides superior processability for molding thin-wall parts and optimizing cycle time productivity in injection molding operations.
Applications:
Enclosures for consumer electronics
Accessories in information technology equipment

General Information			
UL YellowCard	E206114-102142412		
Features	Chlorine Free Workability, good Fast molding cycle Bromine-free Flame retardancy		
Uses	Thin wall parts Electrical housing		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	14	g/10 min	ASTM D1238
260°C/5.0 kg	57	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 3.20 mm, Injection Molded)	117		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (3.20 mm, Injection Molded)	2280	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.20mm, injection molding	60.0	MPa	ASTM D638
Fracture, 3.20mm, injection molding	46.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 3.20mm, injection molding	3.2	%	ASTM D638
Fracture, 3.20mm, injection molding	37	%	ASTM D638

Flexural Modulus (3.20 mm, Injection Molded)	2670	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	93.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	550	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	90.0	°C	ASTM D648
0.45 MPa, annealed	94.0	°C	ASTM D648
1.8 MPa, not annealed	78.0	°C	ASTM D648
1.8 MPa, annealed	90.0	°C	ASTM D648
Vicat Softening Temperature			
--	106	°C	ASTM D1525 [1]
--	94.0	°C	ASTM D1525 [2]
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
0.50 mm, all color [3]	V-2		UL 94
1.0 mm, all color [4]	V-1		UL 94
1.0 mm, NC, BK [5]	V-0		UL 94
1.4 mm, all color [6]	V-0		UL 94
1.4 mm, all color [7]	5VB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80	°C	
Drying Time	3.0 - 4.0	hr	
Processing (Melt) Temp	230 - 260	°C	
Mold Temperature	40 - 70	°C	
NOTE			
1.	标准 B (120°C/h), 压 力1 (10N)		
2.	速率 A (50°C/h), 载荷2 (50N)		
3.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
4.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		
5.	This rating is not intended to reflect the danger caused by this or any other material under actual fire conditions.		
6.	This rating is not intended to reflect the danger caused by this or any other material under actual fire conditions.		

7.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China