EMERGE™ PC/ABS 7100

Advanced Resin

Trinseo

Message:

EMERGE™ PC/ABS 7100 advanced resin exhibits a balance of properties between impact strength, heat resistance and processability. Its superior natural base color and lot-to-lot color consistency makes it ideally suited for producing very consistent colored parts. It has excellent flow and is ideal for injection molding in thin-wall applications, such as portable electronic devices.

General Information			
UL YellowCard	E54680-469947	E206114-228269	
Features	Good Processability High Flow High Heat Resistance High Impact Resistance		
Uses	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.11	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	4.5	g/10 min	
260°C/5.0 kg	25	g/10 min	
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 3.20 mm, Injection Molded)	112		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (3.20 mm, Injection Molded)	2210	MPa	ASTM D638
Tensile Strength [1] (Yield, 3.20 mm, Injection Molded)	50.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 3.20 mm, Injection Molded	4.0	%	
Break, 3.20 mm, Injection Molded	50	%	
Flexural Modulus (3.20 mm, Injection Molded)	2340	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	80.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	290	J/m	

23°C, 3.20 mm, Injection Molded	480	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm, Injection Molded	116	°C	
1.8 MPa, Unannealed, 3.20 mm, Injection Molded	95.0	°C	
Vicat Softening Temperature	133	°C	ASTM D1525 [2]
CLTE - Flow	7.6E-5	cm/cm/°C	ASTM D696
Flammability	**Nominal Value**		**Test Method**
Flame Rating [3] (1.00 mm)	HB		UL 94
Additional Information	**Nominal Value**		
Drying Temperature			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	48.9 to 90.6	°C	
NOTE			
1.	51 mm/min		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	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