EMERGE™ PC/ABS 7100 MED

Advanced Resin

Trinseo

Message:

EMERGE™ PC/ABS 7100 MED Advanced Resin exhibits a balance of properties between impact strength, heat resistance and processability. It has excellent flow and is ideal for injection molding in thin-wall applications. This resin is available in natural and custom colors. EMERGE PC/ABS 7100 MED resin is compliant with ISO 10993 (Biological Evaluation of Medical Devices) and is suitable for use in approved medical applications.
Main Characteristics:
Tested under ISO 10993
Applications:
Medical Applications

General Information			
Features	Impact resistance, high Workability, good High liquidity Heat resistance, high Biocompatibility		
Uses	Electrical housing Medical/nursing supplies		
Agency Ratings	ISO 10993 2		
Appearance	Available colors Natural color		
Forms	Particle		
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	ASTM D1238
260°C/5.0 kg	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 - 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, 3.20mm, injection molding	4.0	%	ASTM D638
Fracture, 3.20mm, injection molding	50	%	ASTM D638
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, 3.20mm, injection molding	290	J/m	ASTM D256
23°C, 3.20mm, injection molding	480	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm, injection molding	116	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm, injection molding	95.0	°C	ASTM D648
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] (1.0 mm)	HB		UL 94
Additional Information	**Nominal Value**		
Drying Temperature			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80	°C	
Drying Time	3.0 - 4.0	hr	
Processing (Melt) Temp	238 - 266	°C	
Mold Temperature	49 - 91	°C	
NOTE			
1.	51 mm/min		
2.	标准 B (120°C/h), 压 力1 (10N)		
3.	This rating is not intended to reflect the danger caused by this or any other material under actual fire conditions.		

Recommended distributors for this material

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