

EMERGE™ PC/ABS 7502

Advanced Resin

Overview

EMERGE™ PC/ABS 7502 is a non-halogen ignition resistant 20% glass filled PC/ABS resin. It combines the superior physical properties of PC and the excellent processability of ABS. EMERGE PC/ABS 7502 is designed with excellent flow and high rigidity, outstanding capability in chemical resistance for use in internal structural parts of OA machine particular those, parts with thin wall thickness.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.33 g/cm ³	1.33 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	17 g/10 min	17 g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5E-3 to 3.0E-3 in/in	0.15 to 0.30 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	754000 psi	5200 MPa	ASTM D638
Tensile Strength (Break)	14600 psi	101 MPa	ASTM D638
Tensile Elongation (Break)	2.8 %	2.8 %	ASTM D638
Flexural Modulus			ASTM D790
0.126 in (3.20 mm), Injection Molded	899000 psi	6200 MPa	
Flexural Strength	22500 psi	155 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	2.0 ft-lb/in	110 J/m	
Unnotched Izod Impact	7.2 ft-lb/in	380 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	230 °F	110 °C	
Vicat Softening Temperature	234 °F	112 °C	ASTM D1525 ¹
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.020 in (0.50 mm)	V-2	V-2	
0.04 in (1.0 mm)	V-1	V-1	
0.05 in (1.2 mm), Black and White	V-0	V-0	
0.06 in (1.5 mm) ²	V-0	V-0	
0.08 in (2.0 mm)	5VA	5VA	
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	212 °F	100 °C	
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Rear Temperature	464 to 482 °F	240 to 250 °C	
Middle Temperature	482 to 518 °F	250 to 270 °C	
Front Temperature	482 to 518 °F	250 to 270 °C	
Nozzle Temperature	518 to 554 °F	270 to 290 °C	
Mold Temperature	140 to 212 °F	60 to 100 °C	

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Rate A (50°C/h), Loading 2 (50 N)

² This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.



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