# EMERGE<sup>™</sup> PC/ABS 7502

### Advanced Resin

Trinseo

#### Message:

EMERGE<sup>™</sup> 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.

General Information				
UL YellowCard	E206114-100050627			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight			
Features	Flame Retardant			
	Good Chemical Resistance			
	Good Processability			
	Halogen Free			
	High Flow			
	High Rigidity			
Uses	Structural Parts			
	Thin-walled Parts			
Forms	Pellets			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.33	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	17	g/10 min	ASTM D1238	
Molding Shrinkage - Flow	0.15 to 0.30	%	ASTM D955	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	5200	MPa	ASTM D638	
Tensile Strength (Break)	101	MPa	ASTM D638	
Tensile Elongation (Break)	2.8	%	ASTM D638	
Flexural Modulus (3.20 mm, Injection	6200	MPa		
Elevural Strength	155	MPa	ASTM D790	
	Nominal Value		Test Method	
Notched Ized Impact (22°C, 2.20 mm		Ont		
Injection Molded)	110	J/m	ASTM D256	
Unnotched Izod Impact	380	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	110	℃	ASTM D648	
Vicat Softening Temperature	112	°C	ASTM D1525 <sup>1</sup>	
Flammability	Nominal Value		Test Method	

Flame Rating			UL 94
0.500 mm	V-2		
1.00 mm	V-1		
1.20 mm, Black and White	V-0		
1.50 mm <sup>2</sup>	V-0		
2.00 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	240 to 250	°C	
Middle Temperature	250 to 270	°C	
Front Temperature	250 to 270	°C	
Nozzle Temperature	270 to 290	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			
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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