# EMERGE™ PC 4202-8

## Advanced Resin

Trinseo

#### Message:

EMERGE<sup>™</sup> PC 4202 advanced resin is 20% glass reinforced polycarbonate containing mold release for optimal processing. This resin exhibits high modulus and excellent dimensional stability. It is available in 8 and 15 Melt Flow Rates. EMERGE PC 4202 resin is typically used in injection molding applications. Applications are information technology equipment, electrical parts, other structural/internal parts.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Mold Release		
Features	Good Dimensional Stability		
	Good Processability		
Uses	Electrical/Electronic Applications		
	Structural Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5170	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	82.7	MPa	
Break	82.7	MPa	
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	4960	MPa	ASTM D790
Flexural Strength	148	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed	148	°C	
1.8 MPa, Unannealed	138	°C	
1.8 MPa, Annealed	142	°C	
Vicat Softening Temperature	159	°C	ASTM D1525 <sup>1</sup>

Flammability	Nominal Value	Unit	Test Method
Flame Rating <sup>2</sup>			UL 94
1.60 mm	V-2		
3.05 mm	V-0		
Oxygen Index <sup>3</sup>	30	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Melt Temperature (Aim)	288	°C	
Mold Temperature	82.2	°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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