# EMERGE<sup>™</sup> PC 4350

### Advanced Resin

Trinseo

#### Message:

EMERGE<sup>™</sup> PC 4350 Advanced Resin is a polycarbonate resin offering ultraviolet light stability, high heat resistance and maximum toughness. This UV stable resin is available in a full range of colors that can be customer tailored to meet your product requirements. Applications: Appliances Outdoor applications Automotive components

General Information			
UL YellowCard	E54680-102071901		
Features	Good Toughness		
	High Heat Resistance		
Uses	Appliances		
	Automotive Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	15	g/10 min	ASTM D1238
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)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2410	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.20 mm, Injection Molded	60.0	MPa	
Break, 3.20 mm, Injection Molded	71.0	MPa	
Tensile Elongation			ASTM D638
Yield, 3.20 mm, Injection Molded	6.0	%	
Break, 3.20 mm, Injection Molded	150	%	
Flexural Modulus (3.20 mm, Injection			
Molded)	2410	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection	96.5	MDo	
Impact	Nominal Value	Unit	lest Method

Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	850	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm, Injection Molded)	No Break		ASTM D256
Instrumented Dart Impact (23°C, 3.20 mm, Injection Molded, Total Energy)	87.0	L	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed	143	°C	
1.8 MPa, Unannealed	127	°C	
1.8 MPa, Annealed	140	°C	
Vicat Softening Temperature	148	°C	ASTM D1525 <sup>1</sup>
Ball Indentation Temperature	> 125	°C	IEC 60335-1
CLTE - Flow (-40 to 82°C)	6.8E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	271 to 288	°C	
Mold Temperature	65.6 to 98.9	°C	
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		

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#### Recommended distributors for this material

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