

EMERGE™ PC 4330ECO

Advanced Resin

Trinseo

Message:

EMERGE PC 4330ECO Advanced Polycarbonate Resin contains 50% post consumer recycled (PCR) polycarbonate with IEEE 1680:2006 certified by TÜV Rheinland. Its color under the code of IC8800234 meets the stringent requirement of white. This resin also provides a property balance of flowability, ductility, stiffness and thermal resistance to meet the market needs on various applications in information technology equipment (ITE) and consumer electronics without painting or coating.

- Applications
- Packaging for ITE
- Electronic accessories
- Electrical appliances

General Information			
UL YellowCard	E206114-101960612		
Recycled Content	Yes,50%		
Features	Ductile		
	Good Flow		
	Good Stiffness		
	High Heat Resistance		
Uses	Appliances		
	Electrical/Electronic Applications		
	Packaging		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	23	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 3.20 mm, Injection Molded	99		
Shore D, 3.20 mm, Injection Molded	86		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2200	MPa	ASTM D638
Tensile Strength (Yield, 3.20 mm, Injection Molded)	62.0	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Injection Molded)	110	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	2450	MPa	ASTM D790

Flexural Strength (3.20 mm, Injection Molded)	96.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	131	°C	
1.8 MPa, Unannealed	119	°C	
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	60.0 to 90.0	°C	

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