

# EMERGE™ PC/ABS 7590ECO

Advanced Resin

Trinseo

## Message:

EMERGE 7590ECO Advanced Resin is an ignition-resistance PC/ABS alloy containing 35% post consumer recycled (PCR) materials and no chlorine or bromine additives. This resin provides superior processability for molding thin-wall parts and optimizing cycle time productivity in injection molding operations.

## Applications:

Enclosures for consumer electronics

Accessories in information technology equipment

General Information			
Recycled Content	Yes,35%		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Processability		
Uses	Electrical/Electronic Applications		
	Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2420	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.20 mm, Injection Molded	55.0	MPa	
Break, 3.20 mm, Injection Molded	46.0	MPa	
Tensile Elongation			ASTM D638
Yield, 3.20 mm, Injection Molded	4.0	%	
Break, 3.20 mm, Injection Molded	100	%	
Flexural Modulus (3.20 mm, Injection Molded)	2830	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	97.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	720	J/m	ASTM D256

Unnotched Izod Impact (23°C, 3.20 mm, Injection Molded)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	82.0	°C	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		Internal Method
Oxygen Index	29	%	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	60.0 to 80.0	°C	

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#### Recommended distributors for this material

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