

EMERGE™ PC/ABS 7880ECO

Advanced Resin

Trinseo

Message:

EMERGE* 7880ECO PC/ABS Advanced Resin is an ignition-resistance PC/ABS blend that contains no chlorine or bromine additives. It contains up to 50% of post consumer recycle (PCR). This resin is suitable for use in a wide variety of applications in the information technology equipment and consumer electronics markets.

Applications:

Computer peripherals

General Information			
UL YellowCard	E206114-100957285		
Recycled Content	Yes		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
Uses	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	10	g/10 min	
260°C/2.16 kg	15	g/10 min	
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.0	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	720	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature	102	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	11	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating		UL 94	
0.500 mm	V-2		
1.00 mm	V-0		
	5VB		
2.00 mm	5VB		
Glow Wire Flammability Index (0.500 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	50.0 to 73.9	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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