

CELEX™ 500S2

Polycarbonate Resin

Trinseo

Message:

CELEX™ 500S2 PC/ABS alloy is designed with easy processing.

Applications:

Automotive instrument panels

Automotive interior/exterior trims

Small appliance and electrical applications

General Information			
UL YellowCard	E132010-100872199		
Features	Good Processability		
Uses	Appliances		
	Automotive Applications		
	Automotive Instrument Panel		
	Automotive Interior Parts		
	Electrical/Electronic Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.20 mm, Injection Molded)	50.0	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Injection Molded)	24	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	2390	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	77.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	102	°C	
1.8 MPa, Unannealed	83.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating ¹			UL 94
1.00 mm, Colors: NC, RD, WT	HB		

1.20 mm, All Colors	HB	
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	210 to 230	°C
Mold Temperature	40.0 to 60.0	°C

NOTE		
1.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.	

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