

CELEX™ 500S2

Polycarbonate Resin

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

Applications:

- Automotive instrument panels
- Automotive interior/exterior trims
- Small appliance and electrical applications

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.09 g/cm ³	1.09 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	7250 psi	50.0 MPa	
Tensile Elongation			ASTM D638
Break, 0.126 in (3.20 mm), Injection Molded	24 %	24 %	
Flexural Modulus			ASTM D790
0.126 in (3.20 mm), Injection Molded	347000 psi	2390 MPa	
Flexural Strength			ASTM D790
0.126 in (3.20 mm), Injection Molded	11200 psi	77.0 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	9.2 ft-lb/in	490 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	216 °F	102 °C	
264 psi (1.8 MPa), Unannealed	181 °F	83.0 °C	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ¹			UL 94
0.04 in (1.0 mm), Colors: NC, RD, WT	HB	HB	
0.05 in (1.2 mm), All Colors	HB	HB	
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 °F	80 °C	
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Processing (Melt) Temp	410 to 446 °F	210 to 230 °C	
Mold Temperature	104 to 140 °F	40 to 60 °C	