

# CELEX™ 501.C

PC/ABS Engineering Resin

Trinseo

## Message:

CELEX 501.C is a high flow PC/ABS alloy. It combines the superior physical properties, high heat resistance of PC and the excellent processability of ABS. CELEX 501.C is designed for use in thin wall injection products and mobile phone housing.

General Information			
Features	Good Processability		
	High Flow		
	High Heat Resistance		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	8.3	g/10 min	
250°C/5.0 kg	30	g/10 min	
260°C/5.0 kg	36	g/10 min	
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.20 mm)	50.0	MPa	ASTM D638
Flexural Modulus (3.20 mm)	2260	MPa	ASTM D790
Flexural Strength (3.20 mm)	84.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	540	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	100	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating <sup>1</sup> (0.800 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	215 to 230	°C	
Middle Temperature	230 to 235	°C	
Front Temperature	235 to 240	°C	
Nozzle Temperature	240 to 250	°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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