



# CELEX 5200HF

PC/ABS Alloy

CELEX\*\* 5200HF is a non-halogen ignition resistant PC/ABS alloy. It combines the superior physical properties of PC and the excellent processability of ABS. CELEX 5200HF is designed with excellent flow for use in monitor housing and instrument panel.

Properties <sup>(1)</sup>	Test Method	English		S.I.	
		Value	Unit	Value	Unit
<b>Physical</b>					
Melt Flow Rate (230°C, 3.8 kg)	ASTM D 1238	17	g/10 min	17	g/10 min
Density	ASTM D 792	1.18	g/cc	1,180	kg/m <sup>3</sup>
Mold Shrinkage	ASTM D 955	0.005-0.007	in/in	0.005-0.007	mm/mm
<b>Mechanical</b>					
Tensile Strength at Yield	ASTM D 638	7,900	psi	55	MPa
Tensile Modulus	ASTM D 638	355,000	psi	2,450	MPa
Elongation at Break	ASTM D 638	100	%	100	%
Flexural Strength	ASTM D 790	12,700	psi	88	MPa
Flexural Modulus	ASTM D 790	376,000	psi	2,600	MPa
Izod, Notched @ 23°C	ASTM D 256	14	ft-lb/in	750	J/m
Izod, Notched @ -20°C	ASTM D 256	4	ft-lb/in	220	
<b>Thermal</b>					
DTUL @ 1.82 MPa, unannealed	ASTM D 648	181	°F	83	°C
Vicat Softening Point @ 120°C/hr	ASTM D 1525	212	°F	100	°C
<b>Flammability<sup>(2)</sup></b>					
UL94 classification @ 1.6mm		V-0		V-0	
UL94 classification @ 1.6 mm		5VB		5VB	
<b>Recommended Processing Conditions</b>					
Drying Temperature		175	°F	80	°C
Drying Time		3-4	hrs	3-4	hrs
Barrel Temperature					
Rear zone		374-430	°F	190-220	°C
Middle zone		392-440	°F	200-225	°C
Front zone		400-455	°F	205-235	°C
Nozzle zone		310-455	°F	210-235	°C
Mold Temperature		105-140	°F	40-60	°C

- (1) Typical properties, not to be construed as sales specifications. Properties developed on 0.125 inch (3.2 mm) injection molded specimens unless otherwise noted. Each user of the material or design or both should make his own tests to determine the suitability of the material or any material for his own particular use.
- (2) This rating is not intended to reflect hazards presented by this or any other materials under actual fire conditions.

