PHOENIX
Polymer Compounding LLC

Technical Data Sheet

Phoenisol® *CB4200*

Polycarbonate (PC)/Polybutylene-Terephthalate (PBT) Alloy

Date: January, 2008

General			
Features		Excellent low temperature impact resistance Very good chemical resistance	
Appearance		Off white or pigmented Pellets	
Processes		Injection molding	
Typical Compound Properties[a]		***Nominal Values***	***Test Methods***[b]
Physical	**English Units**	**Metric Units**	
Vicat Softening Point	246 °F	4.0 dg/min.	ASTM D1525, Rate B, 50N load
Specific Gravity	1.17	1.17	ASTM D792
Linear Mold Shrinkage	0.011 in/in	0.011 mm/mm	ASTM D955
Water Absorption	0.13%	0.13%	ASTM D785
Mechanical			
Notched Izod Impact @ 73 ºF (23 ºC)	15.0 ft-lb/in.	800.9 J/m	ASTM D256
Tensile Strength @ Yield	7,200 psi	49.7 MPa	ASTM D638
Elongation @ Break	150%	150%	ASTM D638
Tensile Modulus	260,000 psi	1,793 MPa	ASTM D790
Flexural Strength	10,200 psi	70.3 MPa	ASTM D790
Flexural Modulus, tangent	255,000 psi	1,759 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	240 ºF	116 ºC	ASTM D648
@ 264 psi (1.82 MPa)	205 ºF	96 ºC	ASTM D648

(a) Values shown represent nominal averages and are not to be construed as product specifications.
(b) ASTM methods are the latest under the Society's current Procedures. All Molded specimens are prepared by injection molding.

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