



# Technical Data Sheet

## Phoeneos® P1100 TL40

### 40% Talc Reinforced Polypropylene (PP) Homopolymer – Heat Stabilized

Date: January, 2008

#### General

Features	Excellent dimensional stability Excellent chemical resistance Excellent long term heat stability
Appearance	Off white or pigmented Pellets
Processes	Injection molding

#### Typical Compound Properties<sup>(a)</sup>

	Nominal Values		Test Methods <sup>(b)</sup>
Physical	English Units	Metric Units	
Melt Flow Rate	5.0 g/10 min.	5.0 dg/min.	ASTM D1238, 2160 g. @ 230°C
Melt Point	334 °F	168 °C	ASTM D789
Specific Gravity	1.24	1.24	ASTM D792
Linear Mold Shrinkage	0.007 in/in	0.007 mm/mm	ASTM D955
Water Absorption	0.03%	0.03%	ASTM D570
Hardness, Rockwell Scale	R95	R95	ASTM D785
Coefficient of Linear Thermal Expansion	2.40 x 10 <sup>-5</sup> in/in °F	4.32 x 10 <sup>-5</sup> cm/cm °C	ASTM D696
Reinforcement Content	40±2%	40±2%	ASTM D2584
Long Term Heat Stability @ 150°C	>1,000 hours	>1,000 hours	ASTM D3012

#### Mechanical

Notched Izod Impact @ 73 °F (23 °C)	0.7 ft-lb/in.	37.4 J/m	ASTM D256
Gardner Impact @ 73°F (23 °C)	6.0 in-lb.	0.4 joules	ASTM D638
Tensile Strength @ Yield	4,500 psi	31.0 MPa	ASTM D638
Elongation @ Break	10%	10%	ASTM D638
Stiffness In Flexure	320,000 psi	2,207 MPa	ASTM D747
Flexural Modulus, tangent	500,000 psi	3,448 MPa	ASTM D790
Heat Deflection Temperature			
@ 66 psi (0.455 MPa)	275 °F	135 °C	ASTM D648
@ 264 psi (1.82 MPa)	175 °F	79 °C	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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