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BLACKTHORN, INC.

Clayton, Ohio

Good Through: December 31, 2009

Product Specification Sheet

Products All plastic spacers for rebar, including wheels, chairs, clips and bolsters, manufactured from recycled Polypropylene, e.g. Hostalen GC 72600, Hostalen PPT 1070.

Description Good alternative to steel; provides sturdy support. Plastic used does not react to concrete mixes or steel reinforcement; therefore, it does not promote corrosion and gives product lasting strength and durability.

| Physical Properties | Test Method | Hostalen GC 7260 | Hostalen PPT 1070 |
|-----------------------------------------------------|---------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Specific Gravity | ASTM D 792 ISO/DIN 1183 | 0.957 0.957 g/cm ³ | 0.957 0.905 g/cm ³ |
| Specific Volume | ASTM D 792 ISP/DIN 1183 | 28,948 in ³ /lb 1,045 cm ³ /g | 30,609 in ³ /lb 1,105 cm ³ /g |
| Mechanical Properties | | | |
| Tensile Yield strength | ASTM D 638 ISO/DIN 527 T1 +2 | 4060 psi 28 MPa | 4640 psi 32 MPa |
| Tensile Break strength | ASTM D 638 ISO/DIN 527 T1+2 | 4350 psi 30 MPa | 10875 psi 75 MPa |
| Compressive strength | ASTM D 695 | n/a | n/a |
| Thermal Properties | | | |
| Deflection Temperatures @ 264 psi, 1/8" thick | ASTM D 648 | 248° F | 265° F |
| at 1,8 MPa, 4 mm thick | DIN/ISO 75 T1+2 | 50° C | 55° C |
| Coefficient of linear thermal expansion, 0-150 F | ASTM D 696 | max. 4,7 x 10 ⁻⁵ | max. 3,8 x 10 ⁻⁵ |
| 23-80 C | DIN 53752 | 1..2,5 x 10 ⁻⁴ | 1..2 x 10 ⁻⁴ |

Not to be construed as sales specifications. Variations possible due to usage of recycled plastics.