

Technical Data

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AQUALOY® 282

Glass Fiber Reinforced, Surface Modified, Modified PPE Blend

Properties	Standard	Parameters	Unit
Chemical			
Moisture (Water Content)		0.04 - 0.10	%
Water Absorption	ASTM D570	24 hrs.	0.025 %
General			
Specific Gravity	ASTM D792	1.47	g/cm ³
Mechanical			
Flexural Modulus	ASTM D790	1.3mm/min, 50 mm span	976.8 kPSi
Flexural Strength	ASTM D790	@ 1.3 mm/min, 50 mm span	1.46 kPSi
Izod Impact Strength, Notched	ASTM D256		.594 ft-lbs/in
Tensile Elongation	ASTM D638	@ break 5mm/min	1.8 MPa
Tensile Strength @ Break	ASTM D638	5 mm/min	58 MPa
Processing			
Melt Temperature		240-270	°C
Mold Shrinkage	ASTM D955	.24	%
Mold Temperature		90-110	°C
Predrying		2-4 hours @ 100	°C
Thermal			
CLTE	ASTM D696	-30 to 100°C cross flow	48.5x10 ⁻⁶ mm/mm/°C
CLTE	ASTM D696	-30 to 100°C flow	25.4 x 10 ⁻⁶ mm/mm/°C
Heat Deflection Temperature	ASTM D648	@ 1.82 MPa, 264 psi	279.8 °F

Reported values pertain only to natural resins: pigmenting may vary properties. Pellet cut, size, color, and other properties may vary depending on the manufacturing location.

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