

Typical Properties of Thermoplastics

EMAREX™ 300 GF33

33% Glass Fiber Reinforced, heat stabilized Nylon 6

Further information and details are available upon request.

| Properties | Test Method | English | Units | S.I. | Units |
|--|-------------|----------|-------------|-------|---------|
| PHYSICAL | | | | | |
| Specific Gravity | D 792 | NA | 1.38 | NA | 1.38 |
| Linear Mold Shrinkage | D 955 | in/in | 0.001-0.003 | % | 0.1-0.3 |
| Relative Viscosity | D 789 | cP | 50.0 | kPa's | 50.0 |
| Hardness, Rockwell | D 785 | R | 121 | R | 121 |
| Water Absorption | D 570 | % | 1.10 | % | 1.10 |
| Melt Point | D 789 | F | 419 | C | 215 |
| Reinforcement Content | D 2584 | % | 33+/-2 | % | 33+/-2 |
| MECHANICAL | | | | | |
| Tensile Strength @ Break | D 638 | psi | 20,000 | MPa | 138 |
| Elongation @ Break | D 638 | % | 2.0 | % | 2.0 |
| Flexural Modulus, | D790 | kpsi | 1,100 | MPa | 7,679 |
| Flexural Strength | D790 | psi | 30,000 | MPa | 206.7 |
| Izod Impact, notched. 73°F (23°C) | D256 | ft-lb/in | 1.1 | J/m | 58.7 |
| THERMAL | | | | | |
| Deflection Temperature, 66 psi (0.455MPa), Load 264 psi (1.82 MPa), Load | D 648 | °F | 420 | °C | 216 |
| | | °F | 392 | °C | 200 |

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