

## Technical Information



### ALTUGLAS™ DRT Frosted 18

| Physical                                     | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
|----------------------------------------------|---------------------------|------------------------|--------------|
| Density                                      | 1.16 g/cm <sup>3</sup>    | 1.16 g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)     | 0.70 g/10 min             | 0.70 g/10 min          | ISO 1133     |
| Molding Shrinkage - Flow                     | 2.0E-3 to 6.0E-3 in/in    | 0.20 to 0.60 %         | ASTM D955    |
| Water Absorption                             |                           |                        | ISO 62       |
| Equilibrium, 73°F (23°C), 50% RH             | 0.36 %                    | 0.36 %                 |              |
| Mechanical                                   | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Tensile Stress                               |                           |                        | ISO 527-2/50 |
| Yield, 73°F (23°C)                           | 5510 psi                  | 38.0 MPa               |              |
| Break, 73°F (23°C)                           | 5080 psi                  | 35.0 MPa               |              |
| Tensile Strain                               |                           |                        | ISO 527-2/50 |
| Yield, 73°F (23°C)                           | 5.0 %                     | 5.0 %                  |              |
| Break, 73°F (23°C)                           | 26 %                      | 26 %                   |              |
| Flexural Modulus (73°F (23°C))               | 247000 psi                | 1700 MPa               | ISO 178      |
| Flexural Stress (73°F (23°C))                | 9430 psi                  | 65.0 MPa               | ISO 178      |
| Impact                                       | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Charpy Notched Impact Strength (73°F (23°C)) | 1.7 ft·lb/in <sup>2</sup> | 3.5 kJ/m <sup>2</sup>  | ISO 179/1eA  |
| Charpy Unnotched Impact Strength             |                           |                        | ISO 179/1eU  |
| 73°F (23°C)                                  | 16 ft·lb/in <sup>2</sup>  | 33 kJ/m <sup>2</sup>   |              |
| Notched Izod Impact Strength (73°F (23°C))   | 1.9 ft·lb/in <sup>2</sup> | 4.0 kJ/m <sup>2</sup>  | ISO 180/1A   |
| Hardness                                     | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Rockwell Hardness (M-Scale)                  | 55                        | 55                     | ASTM D785    |
| Thermal                                      | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Deflection Temperature Under Load            |                           |                        | ISO 75-2/A   |
| 264 psi (1.8 MPa), Annealed                  | 190 °F                    | 88.0 °C                |              |
| Vicat Softening Temperature                  | > 208 °F                  | > 98.0 °C              | ISO 306/B50  |
| Flammability                                 | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Flame Rating                                 | HB                        | HB                     | UL 94        |
| Optical                                      | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Light Transmittance (78.74 mil (2000 µm))    | 88.0 %                    | 88.0 %                 | ASTM D1003   |
| Haze                                         | 100 %                     | 100 %                  | ASTM D1003   |
| Injection                                    | Nominal Value (English)   | Nominal Value (SI)     |              |
| Drying Temperature                           | 176 °F                    | 80 °C                  |              |
| Drying Time                                  | 4.0 to 6.0 hr             | 4.0 to 6.0 hr          |              |
| Rear Temperature                             | 428 to 464 °F             | 220 to 240 °C          |              |
| Middle Temperature                           | 446 to 482 °F             | 230 to 250 °C          |              |
| Front Temperature                            | 464 to 500 °F             | 240 to 260 °C          |              |
| Nozzle Temperature                           | 464 to 500 °F             | 240 to 260 °C          |              |
| Processing (Melt) Temp                       | 464 to 500 °F             | 240 to 260 °C          |              |
| Mold Temperature                             | 158 to 176 °F             | 70 to 80 °C            |              |

#### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

## Technical Information

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