

Durethan[®] BC700HTS DUSXBL

PA*—I

Blow Molding Grade, Unreinforced, Heat Stabilized, Improved Impact

Print Date: 2024-11-15

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|----------------|
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 980 / 210 | MPa | ISO 527-1/-2 |
| Yield stress | 37 / – | MPa | ISO 527-1/-2 |
| Yield strain | 6.5 / – | % | ISO 527-1/-2 |
| Flexural modulus | 980 / 230 | MPa | ISO 178 |
| Flexural strength | 35 / 12 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | N / – | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 105 / – | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 75 / – | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | 90 / – | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 212 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 48 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 53 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 2 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 2 / * | E-4/°C | ISO 11359-1/-2 |
| OTHER PROPERTIES | | | |
| | DRY / COND | | |
| Water absorption | 8.1 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.9 / * | % | Sim. to ISO 62 |
| Density | 1030 / – | kg/m ³ | ISO 1183 |

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|-----------------------------------|---------------------|-------------|----------------------|
| PROCESSING RECOMMENDATIONS | | | |
| Drying temperature dry air dryer | 80 | °C | |
| Drying time dry air dryer | 2-6 | h | |
| Residual moisture content | 0.00-0.06 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 230-280 | °C | |
| Mold temperature | 60-90 | °C | |

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