

Durethan® BC30S

PA6-I

General purpose, Unreinforced, Improved Impact

Print Date: 2024-08-24

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|--------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 1 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 0.9 / * | % | ISO 294-4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 3200 / 1000 | MPa | ISO 527-1/-2 |
| Yield stress | 80 / 45 | MPa | ISO 527-1/-2 |
| Yield strain | 4 / 24 | % | ISO 527-1/-2 |
| Flexural modulus | 2800 / 1000 | MPa | ISO 178 |
| Flexural strength | 105 / 40 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | N / N | kJ/m² | ISO 179/1eU |
| Charpy impact strength (-30°C) | N / - | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | <10 / 30 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | <10 / <10 | kJ/m² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | <10 / 20 | kJ/m² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 221 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 66 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 172 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 1 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.8 / * | E-4/°C | ISO 11359-1/-2 |
| ELECTRICAL PROPERTIES | | | |
| | DRY / COND | | |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|----------------------------|---------------------|-------------|--------------------|
| Comparative tracking index | 600 / – | V | IEC 60112 |

| <i>OTHER PROPERTIES</i> | <i>DRY / COND</i> | | |
|-------------------------|-------------------|-------------------|----------------|
| Water absorption | 10 / * | % | Sim. to ISO 62 |
| Humidity absorption | 3 / * | % | Sim. to ISO 62 |
| Density | 1120 / – | kg/m ³ | ISO 1183 |

| <i>PROCESSING RECOMMENDATIONS</i> | <i>VALUE</i> | | |
|-----------------------------------|--------------|----|----------------------|
| Drying temperature dry air dryer | 80 | °C | |
| Drying time dry air dryer | 2–6 | h | |
| Residual moisture content | 0.03–0.12 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 260–280 | °C | |
| Mold temperature | 80–90 | °C | |

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