

Ultradur B 4040 G10 BK5110

Polybutylene

Terephthalate/Polyethylene

Terephthalate



Product Description

Ultradur B 4040 G10 BK5110 is a pigmented black, injection molding PBT with 50% glass fiber reinforced for technical parts with excellent surface finish.

Applications

Typical applications include automotive exterior, door handles, exterior mirror housings, rear screen, wiper arms.

| PHYSICAL | ASTM Test Method | Property Value |
|--|------------------|--------------------|
| Specific Gravity | D-792 | 1.73 |
| Mold Shrinkage (1/8" bar, in/in) | | 0.002 |
| Moisture, % | D-570 | |
| (50% RH) | | 0.12 |
| (Saturation) | | 0.4 |
| MECHANICAL | ASTM Test Method | Property Value |
| Tensile Strength, Break, MPa (psi) | D-638 | |
| 23C (73F) | | 140 (20,300) |
| Elongation, Break, % | D-638 | |
| 23C (73F) | | 1.5 |
| Flexural Modulus, MPa (psi) | D-790 | |
| 23C (73F) | | 13,600 (1,970,000) |
| IMPACT | ASTM Test Method | Property Value |
| Notched Izod Impact, J/M (ft-lbs/in) | D-256 | |
| -40C (-40F) | | 64 (1.2) |
| 23C (73F) | | 75 (1.4) |
| THERMAL | ASTM Test Method | Property Value |
| Melting Point, C(F) | D-3418 | 223 (433) |
| Heat Deflection @ 264 psi (1.8 MPa) C(F) | D-648 | 215 (419) |
| Heat Deflection @ 66 psi (.45 MPa) C(F) | D-648 | 220 (428) |
| ELECTRICAL | ASTM Test Method | Property Value |
| Volume Resistivity, 1.5 mm | D-257 | >1E13 |
| Surface Resistivity, 1.5 mm | D-257 | 1E13 |

Note

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