# DuraSurf™ 4001 DuraJet

Ultra High Molecular Weight Polyethylene

Crown Plastics

## Message:

As an alternative to high priced, non-durable high carbon formulas, DuraSurf™ 4001 DuraJet provides a blacker, faster alternative to our standard black base, without surrendering it's durability. The extremely high grade carbon also eliminates "bleeding" into other colors in die cut bases.

| General Information | | | |
|---|---|---|---|
| Features | Durable | | |
| Uses | Screen Printing | | |
| Appearance | Black | | |
| Forms | Preformed Parts | | |
| Processing Method | Sintering | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | > 0.930 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) | 0.0 | g/10 min | ASTM D1238 |
| Molding Shrinkage | | | Internal Method |
| Flow | 8.1 | % | |
| Across Flow | -0.20 | % | |
| Average Molecular Weight | | | |
| -- | 8100000 | g/mol | |
| -- | 5400000 | g/mol | ASTM D4020 |
| Crystallinity | 44 | % | DSC |
| Abrasion Resistance - Sand Slurry | 0.570 | | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 680 | MPa | ASTM D638, ISO 527-2 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | No Break | | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| CLTE - Flow | 2.0E-4 | cm/cm/°C | ASTM D696 |

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Recommended distributors for this material

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