

# Devlon UHMWPE

Ultra High Molecular Weight Polyethylene

Devol® Engineering Polymers

### Message:

Devlon UHMWPE is an Ultra High Molecular Weight Polyethylene material. It is available in Europe.

Important attributes of Devlon UHMWPE are:

Flame Rated

Moisture Resistant

| General Information                                      |                    |          |             |
|--|--------------------|----------|-------------|
| Features   | Moisture Resistant |          |             |
| Forms  | Pellets            |          |             |
| Physical   | Nominal Value      | Unit     | Test Method |
| Specific Gravity   | 0.940              | g/cm³    | ASTM D792   |
| Hardness   | Nominal Value      | Unit     | Test Method |
| Durometer Hardness (Shore D)                             | 64 to 67           |          | ASTM D2240  |
| Mechanical   | Nominal Value      | Unit     | Test Method |
| Tensile Modulus  | 785                | MPa      | ASTM D638   |
| Tensile Strength (23°C)                                  | 24.6               | MPa      | ASTM D638   |
| Tensile Elongation (Break)                               | 450                | %        | ASTM D638   |
| Flexural Strength  | 26.5               | MPa      | ASTM D790   |
| Impact   | Nominal Value      | Unit     | Test Method |
| Charpy Notched Impact Strength (23°C)                    | No Break           |          | ASTM D256   |
| Thermal  | Nominal Value      | Unit     | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 95.0               | °C       | ASTM D648   |
| Melting Temperature                                      | 137                | °C       | ASTM D3418  |
| CLTE - Flow (30 to 100°C)                                | 2.0E-4             | cm/cm/°C | ASTM E831   |
| Electrical   | Nominal Value      | Unit     | Test Method |
| Dielectric Strength                                      | > 28               | kV/mm    | ASTM D149   |
| Flammability   | Nominal Value      | Unit     | Test Method |
| Flame Rating   | HB                 |          | UL 94       |

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