

Okulen® 1000 PE-UHMW, Green Black

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

Material Notes:

OKULEN® 1000 is an ultra high molecular low pressure polyethylene with a molecular weight of < 3.5 g/mol. It has great wear resistance, high impact strength, and excellent sliding properties ideal for applications like machine construction, plant construction, and conveyor technology.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Okulen-1000-PE-UHMW-Green-Black.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|---------------------------|------------|
| Density | 0.940 g/cc | 0.0340 lb/in ³ | ISO 1183-A |

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|----------------------------|---------------------------|--|
| Hardness, Shore D | 64 | 64 | ISO 868 |
| Tensile Strength, Yield | 14.0 - 17.0 MPa | 2030 - 2470 psi | 50 mm/min; ISO/R 527 |
| Elongation at Break | >= 50 % | >= 50 % | 50 mm/min; ISO/R 527 |
| Creep Strength | 10.0 MPa | 1450 psi | |
| Coefficient of Friction, Dynamic | 0.15 @Pressure 2.00 MPa | 0.15 @Pressure 290 psi | PE-metal, V = 10 m/min; ASTM D1894 |
| Coefficient of Friction, Static | 0.20 @Pressure 2.00 MPa | 0.20 @Pressure 290 psi | PE-metal, V = 10 m/min; ASTM D1894 |
| Abrasion | 140 | 140 | Slurry-Test rel to GUR 4120 = 100%; DIN 58836 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--------------|---------------|--------------|
| CTE, linear | 200 µm/m-°C | 111 µin/in-°F | DIN 53752 |
| Melting Point | 135 - 137 °C | 275 - 279 °F | DSC ISO 3146 |
| Maximum Service Temperature, Air | 80.0 °C | 176 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|--------------------------------|
| Volume Resistivity | <= 1.00e+14 ohm-cm | <= 1.00e+14 ohm-cm | Teil 30; IEC 600093 / VDE 0303 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| FDA Approved | No | |

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