

Braskem HM 150 HDPE Monofilament Polyethylene (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Applications: Raschel; flat yarn; general and industrial rape netting. Information provided by Braskem

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-HM-150-HDPE-Monofilament-Polyethylene-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|--|---|
| Density | 0.950 g/cc | 0.0343 lb/in ³ | ASTM D1505 |
| ESCR 100% Igepal® | 24 hour @Thickness 3.00 mm, Temperature 23.0 °C | 24 hour @Thickness 0.118 in, Temperature 73.4 °F | compression molded plaques; ASTM D1693B |
| Melt Flow | 1.0 g/10 min @Load 2.16 kg, Temperature 190 °C | 1.0 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------------|------------|------------|
| Hardness, Shore D | 64 | 64 | ASTM D2240 |
| Tensile Strength at Break | 33.0 MPa | 4790 psi | ASTM D638 |
| Film Tensile Strength at Yield, MD | 26.0 MPa | 3770 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | 30.0 MPa | 4350 psi | ASTM D882 |
| Tensile Strength, Yield | 28.0 MPa | 4060 psi | ASTM D638 |
| Film Elongation at Break, MD | 1300 % | 1300 % | ASTM D882 |
| Film Elongation at Break, TD | >= 1700 % | >= 1700 % | ASTM D882 |
| Flexural Modulus | 1.145 GPa | 166.1 ksi | ASTM D790 |
| Elmendorf Tear Strength, MD | 0.700 g/micron | 17.8 g/mil | ASTM D1922 |
| Elmendorf Tear Strength, TD | 1.90 g/micron | 48.3 g/mil | ASTM D1922 |
| Film Tensile Strength at Break, MD | 49.0 MPa | 7110 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 48.0 MPa | 6960 psi | ASTM D882 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|--------|---------|------------|
| Vicat Softening Point | 126 °C | 259 °F | ASTM D1525 |

| Descriptive Properties | Value | Comments |
|-------------------------------|------------|-----------------|
| Minimum Recommended Thickness | 15 μ m | |
| Puncture Strength | 26 J/mm | Braskem® Method |

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