

NOVA Chemicals Novapol® HD-2100-A MDPE Extrusion Resin (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded , MDPE

Material Notes:

Features: Excellent ESCR and toughness, high strength, excellent processability. Applications: pipe, water pipe, fuel gas pipe, re-lining pipe, steel pipe coating. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-HD-2100-A-MDPE-Extrusion-Resin-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------------------------|---|---|--|
| Density | 0.940 g/cc | 0.0340 lb/in ³ | ASTM D792 |
| Environmental Stress Crack Resistance | >= 5000 hour | >= 5000 hour | F0, Condition C, ASTM D1693, 100% Igepal |
| Melt Flow | 0.14 g/10 min @Load 2.16 kg, Temperature 190 °C | 0.14 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|----------|--------------------|
| Hardness, Shore D | 60 | 60 | ASTM D2240 |
| Tensile Strength, Ultimate | 31.0 MPa | 4500 psi | ASTM D638 |
| Tensile Strength, Yield | 20.0 MPa | 2900 psi | ASTM D638 |
| Elongation at Break | 800 % | 800 % | ASTM D638 |
| Tensile Modulus | 0.800 GPa | 116 ksi | Secant; ASTM D638 |
| Flexural Modulus | 0.780 GPa | 113 ksi | Secant; ASTM D3350 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-------------------------------------|--|------------|
| CTE, linear | 140 µm/m-°C @Temperature 20.0 °C | 77.8 µin/in-°F @Temperature 68.0 °F | ASTM D696 |
| Melting Point | 128 °C | 262 °F | ASTM D3417 |
| Vicat Softening Point | 119 °C | 246 °F | ASTM D1525 |
| Brittleness Temperature | <= -100 °C | <= -148 °F | ASTM D696 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 195 - 225 °C | 383 - 437 °F | |

Processing Properties

Metric

English

Comments

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