TOTAL PETROCHEMICALS





HDPE CD-471

| Resin Properties ⁽¹⁾ | Typical Value | ASTM Method |
|---|----------------------|--------------------------------------|
| Melt Flow Index, g/10 min | | D 1238 |
| 190°C/2.16 kg | 0.28 | |
| 190ºC/21.6 kg (HLMI) | 20.0 | |
| Density, g/cm ³ | 0.947 | D 792 |
| Melting Point, ^o F | 259 | D 3417 |
| <u>Mechanical Properties⁽¹⁾⁽²⁾</u> | | |
| Tensile Strength at Yield, psi | 3,300 | D 638, Type IV specimen, 2 in/min |
| Elongation @ Break, % | > 600 | D-638, Type IV Specimen, 2 in/min |
| Flexural Modulus @ 2% Strain, psi | 115,000 | D 790 |
| Shore Hardness, D Scale | 63 | D 2240 |
| ESCR ⁽³⁾ , hrs | >1,000 | D 1693, cond. C; 100% Igepal |
| | > 500 | D1693, cond. B, 10% Igepal |
| Thermal Expansion, in/in/°F | 1 x 10 ⁻⁴ | D696 |
| ASTM Cell Classification | 335440 | D3350 |
| Processing | | |
| Recommendations | | |
| Extruder Temperature Range | 380 – 420°F | |
| Melt Temperature During Processing | 400°F | |
| Vacuum Tank Water Temperature | 73°F | |
| | | |

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) The data listed was determined on press molded specimens and may, therefore, vary from specimens

taken from pipes.(3) Environmental Stress Crack Resistance (ESCR)

Polyethylene:

High Density Conduit Resin

Characteristics

- Excellent stress crack resistance
- Good impact strength
- Excellent processability

Applications

- Wire and cable conduit
- Fiber optic innerduct

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TOTAL

1201 Louisiana Street Suite 1800 Houston, TX 77002

P.O. Box 674411 Houston, TX 77267-4411 Phone: (713) 483-5241 Fax: (713) 483-5252

1-800-344-3462

All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of these products must be guided by the user's own methods for selection of proper formulation. TOTAL PETROCHEMICALS USA, INC. disclaims any responsibility for misuse or misapplication of its products. TOTAL PETROCHEMICALS USA, INC. MAKES NO WARRANTY OF MEROCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL PETROCHEMICALS USA, INC. Hakes Do WARRANTY OF MEROCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL PETROCHEMICALS USA, INC. disclaims and ustomer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.