

Total MDPE 3802 B Medium Density Polyethylene, Pipes & Fittings

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

Material Notes:

MDPE 3802 B is a high performance hexene-based black compound, with a MRS 8 MPa - PE 80 classification, and primarily intended for potable water and gas pipe applications. MDPE 3802 B key characteristics are a superior resistance to slow crack growth ensuring safe and long-term network operation, an optimal balance of flexibility and mechanical strength that allows easy coiling, handling and installing of pipes, an optimized formulation of additives and finely dispersed carbon black providing outstanding long-term stability in service. Designation ISO 1872-PE, E/M-ACGHL, 40-T012. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-MDPE-3802-B-Medium-Density-Polyethylene-Pipes-Fittings.php

| Physical Properties | Metric | English | Comments |
|----------------------|---|---|------------|
| Specific Gravity | 0.948 g/cc | 0.948 g/cc | ISO 1183 |
| Carbon Black Loading | 2.0 - 2.5 % | 2.0 - 2.5 % | ISO 6964 |
| Melt Flow | 0.90 g/10 min @Load 5.00 kg, Temperature 190 °C | 0.90 g/10 min @Load 11.0 lb, Temperature 374 °F | ISO 1133/T |

| Processing Properties | Metric | English | Comments |
|------------------------|--------------|--------------|-----------|
| Processing Temperature | 190 - 220 °C | 374 - 428 °F | Extrusion |
| | 200 - 260 °C | 392 - 500 °F | Injection |

| Descriptive Properties | Value | Comments |
|---------------------------------|-----------|---|
| Carbon Black Dispersion, Rating | = 3 | ISO 18553 |
| Thermal Stability 200°C | > 20 min | EN 728 / ISO 11357-6 |
| Water Content | = 300 ppm | EN 12118, measured at the stage of compound manufacturing |

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