

Daelim Po1y® TR-418

High Density Polyethylene

DAELIM INDUSTRIAL CO., LTD.

Message:

Daelim Po1y® TR-418 is a High Density Polyethylene product. It can be processed by profile extrusion and is available in Asia Pacific. Applications of Daelim Po1y® TR-418 include plumbing/piping/potable water and sheet.

Characteristics include:

Good Processability

Good Sealability

High ESCR (Stress Crack Resistant)

| General Information | | | |
|--|---|-------------------|-------------|
| Features | Good Heat Seal Good Processability High ESCR (Stress Crack Resist.) | | |
| Uses | Piping Sheet | | |
| Agency Ratings | ASTM D 1248, II, Class A, Cat. 5 | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Profile Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.938 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.22 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (F50) | > 3000 | hr | ASTM D1693B |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield) | 18.6 | MPa | ASTM D638 |
| Tensile Elongation ² (Break) | > 600 | % | ASTM D638 |
| Flexural Modulus | 686 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 120 | °C | ASTM D1525 |
| Oxidation Induction Time (200°C) | > 120 | min | ASTM D3895 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 190 to 220 | °C | |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | 50 mm/min | | |

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