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## 500# Corrugated Plastic

### Description:

This material is a natural high density polyethylene copolymer designed specifically to meet or exceed the material requirements in conduit specifications ASTM F2160, UL 651B and NEMA TC-7. It balances stiffness, ESCR and molecular weight to provide required toughness and crush strength without compromising processability.

### Typical Physical Properties

| Specification                         | Test Method | Typical Results           |
|---------------------------------------|-------------|---------------------------|
| Density                               | ASTM D 4883 | 0.945 grams               |
| Melt Index (190°C/2.16 kg)            | ASTM D 1238 | 0.35 grams/10min          |
| Tensile Strength @ Yield (2 in/min)   | ASTM D 638  | 3,500 psi                 |
| Elongation @ Break (2 in/min)         | ASTM D 638  | >900%                     |
| Flexural Modulus                      | ASTM D 790  | 150,000 psi               |
| Hardness, Shore D                     | ASTM D 2240 | 68                        |
| Deflection Temperature @ 66 psi 156°F | ASTM D 648  | 69°C                      |
| Brittleness Temperature               | ASTM D 746  | <-105°F                   |
| OIT @ 200°C                           | ASTM D 3895 | >20 min                   |
| Environmental Stress Crack Resistance | ASTM D 1693 | >1,000 hrs.               |
| Cell Classification                   | ASTM D 3350 | 335430A                   |
| Tensile Impact Strength               | ASTM D 1822 | 110 ft·lb/in <sup>2</sup> |
| Vicat Softening Temperature           | ASTM D 1525 | 250°F                     |

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