

Technical Datasheet

- **Grade Name:** Modiran HDPE 5510
- **Categories:** Polymer, Thermoplastic, Polyethylene, High Density Polyethylene
- **Processing Methods:** Extrusion, Injection Molding, Rotational Molding
- **Applications:** standard jerry cans and light weight jerry cans.
- **Features:** high stiffness, good processability, very good ESCR.

| Physical Properties | | | |
|--|--------|-------------------|-------------|
| Properties | Value | Unit | Test Method |
| MFI(190°C/21.6 Kg) | 10 | g/10min | ISO 1133 |
| MFI(190°C/2.16 Kg) | 0.075 | g/10min | ISO 1133 |
| Density | 0.95 | g/cm ³ | ISO 1183 |
| Bulk Density | > 0.50 | g/cm ³ | ISO 60 |
| Mechanical Properties | | | |
| Properties | Value | Unit | Test Method |
| Tensile Modulus of Elasticity | 1000 | MPa | ISO 527-1,2 |
| Flexural Modulus | 1000 | MPa | ASTM D790 |
| Tensile Stress at Yield | 27 | MPa | ISO 527-1 |
| Tensile Strain at Yield | 8 | % | ISO 527-1 |
| Hardness | 30 | MPa | ASTM D638 |
| Ball indentation Hardness | 49 | MPa | ISO 2039-1 |
| ESCR F ₅₀ (100% Igepal, Method B) | 110 | hrs | ASTM D1693 |
| Additive Antioxidant-Heat stabilizer | | | |

Typical Properties: These values are not to be considered as product specifications.

