

# ExxonMobil® HD 6480

Product Description: ExxonMobil™ HD 6480 is a HDPE grade, characterized by excellent dimensional stability, impact strength and very high stiffness.  
 Availability: Africa & Middle East, Asia Pacific and Europe

| Physical Properties | Metric                                               | English                                              | Comments        |
|---------------------|------------------------------------------------------|------------------------------------------------------|-----------------|
| Density             | 0.964 g/cc                                           | 0.0348 lb/in³                                        | ASTM D4883      |
| ESCR 10% Igepal®    | 4.0 hour<br>@Temperature 50.0 °C                     | 4.0 hour<br>@Temperature 122 °F                      | F50; ASTM D1963 |
| Melt Flow           | 8.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 8.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238      |

| Mechanical Properties      | Metric     | English        | Comments        |
|----------------------------|------------|----------------|-----------------|
| Tensile Strength, Yield    | 26.2 MPa   | 3800 psi       | ISO 527-2/1A/50 |
| Elongation at Break        | >= 100 %   | >= 100 %       | ISO 527-2/1A/50 |
| Elongation at Yield        | 9.0 %      | 9.0 %          | ISO 527-2/1A/50 |
| Flexural Modulus           | 1.10 GPa   | 160 ksi        | ISO 178         |
| Izod Impact, Notched (ISO) | 5.88 kJ/m² | 2.80 ft-lb/in² | ISO 180/1A      |

| Thermal Properties | Metric    | English   | Comments                                 |
|--------------------|-----------|-----------|------------------------------------------|
| Melting Point      | <= 134 °C | <= 273 °F | Peak Melting Point;<br>ExxonMobil method |

|                                             |         |        |            |
|---------------------------------------------|---------|--------|------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 70.0 °C | 158 °F | ISO 75-2/B |
|---------------------------------------------|---------|--------|------------|