

# ExxonMobil™ HDPE HD 6714.17

High Density Polyethylene Resin

ExxonMobil Chemical

Message:

HD 6714 is a narrow molecular weight hexene copolymer designed for a wide range of injection molding applications requiring easy processability and good toughness properties. This resin is ideally suited for articles requiring low warpage, glossy surfaces and good cold temperature impact performance.

| General Information                                                          |               |          |             |
|------------------------------------------------------------------------------|---------------|----------|-------------|
| Physical                                                                     | Nominal Value | Unit     | Test Method |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                                    | 14            | g/10 min | ASTM D1238  |
| Environmental Stress-Cracking Resistance (10% Igepal, F50)                   | 3.00          | hr       | ASTM D1693B |
| Mechanical                                                                   | Nominal Value | Unit     | Test Method |
| Tensile Strength <sup>1</sup> (Yield)                                        | 24.8          | MPa      | ASTM D638   |
| Flexural Modulus                                                             |               |          | ASTM D790   |
| 1% secant                                                                    | 1240          | MPa      | ASTM D790   |
| 2% secant                                                                    | 1100          | MPa      | ASTM D790   |
| Impact                                                                       | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (-40°C)                                                  | 41            | J/m      | ASTM D256   |
| Thermal                                                                      | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load                                            |               |          | ASTM D648   |
| 0.45 MPa, not annealed                                                       | 71.0          | °C       | ASTM D648   |
| 1.8 MPa, not annealed                                                        | 45.0          | °C       | ASTM D648   |
| Peak Melting Temperature                                                     | 129           | °C       | ASTM D3418  |
| Additional Information                                                       |               |          |             |
| 性能基于注塑成型样本.可以修改测试流程以适应操作条件或设施限制.                                             |               |          |             |
| Legal statement                                                              |               |          |             |
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| NOTE                                                                         |               |          |             |
| 1.                                                                           | 50 mm/min     |          |             |

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