

# ExxonMobil™ HDPE HD 8760 Series

High Density Polyethylene Resin

ExxonMobil Chemical

## Message:

HD 8760 is a high density hexene copolymer with excellent stiffness and processability. The resin can be ideally used for applications that require an optimal balance between stiffness, processability and appearance.

| General Information                                                                                                                 |                                        |          |             |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------|-------------|
| UL YellowCard                                                                                                                       | E117534-220058                         |          |             |
| Additive                                                                                                                            | HDP8760.29: Long Term UV-15 Stabilizer |          |             |
|                                                                                                                                     | HD 8760.29: Long Term UV-15 Stabilizer |          |             |
| Physical                                                                                                                            | Nominal Value                          | Unit     | Test Method |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                                                                                           | 5.0                                    | g/10 min | ASTM D1238  |
| Environmental Stress-Cracking Resistance                                                                                            |                                        |          | ASTM D1693A |
| 10% Igepal, F50                                                                                                                     | 20.0                                   | hr       | ASTM D1693A |
| 100% Igepal, F50                                                                                                                    | 20.0                                   | hr       | ASTM D1693A |
| Mechanical                                                                                                                          | Nominal Value                          | Unit     | Test Method |
| Tensile Strength <sup>1</sup> (Yield)                                                                                               | 22.1                                   | MPa      | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Yield)                                                                                             | 10                                     | %        | ASTM D638   |
| Flexural Modulus - 1% Secant                                                                                                        | 1030                                   | MPa      | ASTM D790B  |
| Impact                                                                                                                              | Nominal Value                          | Unit     | Test Method |
| Impact Strength                                                                                                                     |                                        |          | ARM         |
| -40°C, 3.18 mm                                                                                                                      | 75                                     | J        | ARM         |
| -40°C, 6.35 mm                                                                                                                      | 190                                    | J        | ARM         |
| Thermal                                                                                                                             | Nominal Value                          | Unit     | Test Method |
| Deflection Temperature Under Load                                                                                                   |                                        |          | ASTM D648   |
| 0.45 MPa, not annealed                                                                                                              | 67.0                                   | °C       | ASTM D648   |
| 1.8 MPa, not annealed                                                                                                               | 40.0                                   | °C       | ASTM D648   |
| Peak Melting Temperature                                                                                                            | 130                                    | °C       | ASTM D3418  |
| Additional Information                                                                                                              |                                        |          |             |
| '- 除了 ESCR 是基于模压样本测定之外,所有物理性能均基于 3 mm 的滚塑样本 测定,除非注明的是其他值. 拉伸测试以 50 mm/min 的十字头速度进行.所报告的拉伸强度指的是在测试过 程中达到的最大应力. 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                              |          |             |
| 2.                                                                                                                                  | 50 mm/min                              |          |             |

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