

# ExxonMobil™ HDPE HPA 020 Molding

High Density Polyethylene (HMW) Resin

ExxonMobil Chemical

## Message:

HPA 020 is a high molecular weight high density polyethylene resin, which is characterized by a good balance between hardness, environmental stress cracking resistance and impact strength.

| General Information                           |                 |                   |             |
|-----------------------------------------------|-----------------|-------------------|-------------|
| Additive                                      | heat stabilizer |                   |             |
| Physical                                      | Nominal Value   | Unit              | Test Method |
| Melt Mass-Flow Rate (MFR)                     |                 |                   | ASTM D1238  |
| 190°C/21.6 kg                                 | 9.0             | g/10 min          | ASTM D1238  |
| 190°C/5.0 kg                                  | 0.35            | g/10 min          | ASTM D1238  |
| Environmental Stress-Cracking Resistance      |                 |                   | ASTM D1693  |
| 10% Igepal                                    | 330             | hr                | ASTM D1693  |
| 100% Igepal                                   | > 600           | hr                | ASTM D1693  |
| Hardness                                      | Nominal Value   | Unit              | Test Method |
| Durometer Hardness (Shore D, 15 sec)          | 61              |                   | ASTM D2240  |
| Mechanical                                    | Nominal Value   | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                  | 1000            | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup>                 |                 |                   | ASTM D638   |
| Yield                                         | 21.0            | MPa               | ASTM D638   |
| 100% strain                                   | 14.0            | MPa               | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break)       | > 100           | %                 | ASTM D638   |
| Impact                                        | Nominal Value   | Unit              | Test Method |
| Notched Izod Impact                           | 18              | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                       | Nominal Value   | Unit              | Test Method |
| Vicat Softening Temperature                   | 126             | °C                | ASTM D1525  |
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| NOTE                                          |                 |                   |             |
| 1.                                            | 5.0 mm/min      |                   |             |
| 2.                                            | 50 mm/min       |                   |             |
| 3.                                            | 50 mm/min       |                   |             |

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