

# ExxonMobil™ HD 4802

(Legacy name: Paxon™ AA48-002)

## High Density Polyethylene

### Product Description

ExxonMobil™ HD 4802 is a blow molding grade high density polyethylene copolymer containing an antistatic additive. It provides a very good balance of stress crack resistance, stiffness and impact strength.

### General

|                           |                                                                                                                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>                                                                                                                                               |
| Additive                  | <ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> <li>Antistatic: Yes</li> </ul>                                                                                                                                   |
| Applications              | <ul style="list-style-type: none"> <li>Agriculture Products</li> <li>Containers</li> <li>Food Packaging</li> <li>Household and Industrial chemical containers</li> <li>Pharmaceutical Packaging</li> <li>Thin Gauge Sheet</li> </ul> |
| Form(s)                   | <ul style="list-style-type: none"> <li>Pellets</li> </ul>                                                                                                                                                                            |
| Revision Date             | <ul style="list-style-type: none"> <li>08/21/2020</li> </ul>                                                                                                                                                                         |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On |
|----------------------------|-------------------------|-------------------------|---------------|
| Density                    | 0.948 g/cm <sup>3</sup> | 0.948 g/cm <sup>3</sup> | ASTM D1505    |
| Melt Index (190°C/2.16 kg) | 0.21 g/10 min           | 0.21 g/10 min           | ASTM D1238    |

| Thermal                                                        | Typical Value (English) | Typical Value (SI) | Test Based On     |
|----------------------------------------------------------------|-------------------------|--------------------|-------------------|
| Deflection Temperature Under Load (DTUL) at 66psi - Unannealed | 145 °F                  | 63 °C              | ASTM D648         |
| Vicat Softening Temperature                                    | 255 °F                  | 124 °C             | ASTM D1525        |
| Peak Melting Temperature                                       | 266 °F                  | 130 °C             | ExxonMobil Method |
| Crystallization Peak, T <sub>c</sub>                           | 243 °F                  | 117 °C             | ExxonMobil Method |

| Molded Properties                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|---------------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield             | 3600 psi                | 25 MPa             | ASTM D638     |
| Flexural Modulus                      |                         |                    |               |
| 1% Secant : 0.051 in/min (1.3 mm/min) | 120000 psi              | 850 MPa            | ASTM D790A    |
| 2% Secant                             | 100000 psi              | 720 MPa            | ASTM D790     |
| Environmental Stress-Crack Resistance |                         |                    | ASTM D1693B   |
| 100% Igepal                           | 130 hr                  | 130 hr             |               |
| Durometer Hardness (Shore D, 15 sec)  | 60                      | 60                 | ASTM D2240    |

| Impact                         | Typical Value (English)   | Typical Value (SI)    | Test Based On |
|--------------------------------|---------------------------|-----------------------|---------------|
| Charpy Notched Impact Strength |                           |                       | ISO 179/1eA   |
| -4°F (-20°C)                   | 1.9 ft-lb/in <sup>2</sup> | 4.0 kJ/m <sup>2</sup> |               |
| 73°F (23°C)                    | 4.3 ft-lb/in <sup>2</sup> | 9.0 kJ/m <sup>2</sup> |               |

### Additional Information

All molded properties were measured on compression molded plaques.

### Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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High Density Polyethylene

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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