

# Qplast™

## QPHD P12005

### High Density Polyethylene

Qplast™ QPHD P12005 is a high-density copolymer polyethylene with a high molecular weight. This resin features exceptional stress crack resistance, outstanding impact strength, robust rigidity, and excellent color quality.

Supplier



Additive

Thermal Stabilizer: Yes; Antistatic: No

Applications

- Agricultural Products Container
- Automotive Fittings
- Automotive Fuel Tanks (not biodiesel)
- Drums
- Food Packaging
- Heavy Gauge Sheet
- Large Part Blow Molding
- Portable Fuel Tanks
- Small Engine Fuel Tanks
- Thermoformed Parts
- Pallets

Form(s)

Pellets

#### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.950 g/cm <sup>3</sup>	0.950 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	< 0.10 g/10 min	< 0.10 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	12 g/10 min	12 g/10 min	ASTM D1238

#### Molded Properties

Tensile Strength at Yield	3700 psi	25 MPa	ASTM D638
Flexural Modulus — 1% Secant	130000 psi	910 MPa	ASTM D790
Environmental Stress–Crack Resistance 100% Igepal	> 1000 hr	> 1000 hr	ASTM D1693
Durometer Hardness (Shore D, 15 sec)	59	59	ASTM D2240
Charpy Notched Impact Strength 73°F (23°C)	8 ft-lb/in <sup>2</sup>	17 kJ/m <sup>2</sup>	ISO 179/1eA

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## Disclaimer

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