

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	<ul style="list-style-type: none"> • 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 ³	0.950 g/cm ³	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 ²	17 kJ/m ²	ISO 179/1eA

Disclaimer

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