

Qplast™

QPHD P10005

High Density Polyethylene

Qplast™ QPHD P10005 is a copolymer polyethylene with high molecular weight and high density. This resin offers excellent stress crack resistance, high impact strength, good rigidity, and great color.

Supplier	
Additive	Thermal Stabilizer: Yes; Antistatic: No
Applications	<ul style="list-style-type: none"> • Agriculture Containers • Food Packaging • Portable Fuel Tanks • Automotive Fittings • Heavy Gauge Sheet • Small Engine Fuel Tanks • Automotive Fuel Tanks (not biodiesel) • Large Part Blow Molding • Thermoformed Parts Excluding biodiesel • Pallets • Drums
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)	10 g/10 min	10 g/10 min	ASTM D1238

Molded Properties

Tensile Strength at Yield	3650 psi	26 MPa	ASTM D638
Flexural Modulus — 1% Secant	130000 psi	920 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	> 1000 hr	> 1000 hr	ASTM D1693
Durometer Hardness (Shore D, 15 sec)	61	61	ASTM D2240
Charpy Notched Impact Strength 73°F (23°C)	9.2 ft-lb/in ²	19 kJ/m ²	SO 179/1eA

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