


Qplast™

QPHD P3500

High Density Polyethylene

QPHD P3500 is a high-density polyethylene copolymer tailored for blow molding applications. It delivers an outstanding balance of stress crack resistance, stiffness, and impact strength, enabling significant lightweighting opportunities in applications requiring superior bent strip ESCR performance.

Supplier			
Additive	Thermal Stabilizer: Yes		
Applications	<ul style="list-style-type: none">• Agricultural Products• Food Packaging• Containers• Household and Industrial chemical containers• Pharmaceutical Packaging		
Form(s)	Pellets		
Resin Properties			
	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.949 g/cm³	0.949 g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.37 g/10 min	0.37 g/10 min	ASTM D1238
Molded Properties			
Tensile Strength at Yield	3500 psi	24 MPa	ASTM D638
Flexural Modulus — 1% Secant	130000 psi	890 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	1200 hr	1200 hr	ASTM D1693B
Durometer Hardness (Shore D, 15 sec)	60	60	ASTM D2240
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	2.0 ft-lb/in²	4.1 kJ/m²	
73°F (23°C)	3.3 ft-lb/in²	6.9 kJ/m²	

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