Qplast™ QPHD G760

High Density Polyethylene

Qplast™ QPHD G760 is a high-density polyethylene (HDPE) resin designed as a versatile polymer for manufacturing containers for dairy, water, and fruit beverages. It is also suitable for blow molding into various thin-walled components and household items.

Supplier	Qplast
Applications	• Beverage Packaging • Houseware Items • Thin-walled parts

Resin Properties

	Typical Value (English)		Typical Value (SI)		Test Method
Density	0.961	g/cm³	0.961	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	0.79	g/10 min	0.79	g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	57	g/10 min	57	g/10 min	ASTM D1238
Melting Temperature	271	°F	133	°C	Proprietary Method

Molded Properties

Tensile Strength at Yield	4600	psi	31.7	MPa	ASTM D638
Tensile Strength at Break	3500	psi	24.1	MPa	ASTM D638
Elongation at Yield	7	%	7	%	ASTM D638
Elongation at Break	1000	%	1000	%	ASTM D638
Flexural Modulus — 2% Secant	185000	psi	1276	MPa	ASTM D790B
Environmental Stress-Cracking Resistance (ESCR) 122°F (50 °C), 100% Igepal, F50	20	hr	20	hr	ASTM D1693
Durometer Hardness (Shore D)	66		66		ASTM D2240

Thermal

DTUL at 66psi — Unannealed	169	°F	76	°C	ASTM D648
Brittleness Temperature	< -105	°F	< -76	°C	ASTM D746
Tensile Impact Strength	40	ft·lb/in²	84.1	kJ/m²	ASTM D1822

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