Qplast™
QPHD P3550
High Density Polyethylene

QPHD P3550 is a high-density copolymer polyethylene tailored for blow molding applications offering excellent stress crack resistance, stiffness, and impact strength. It provides great processability, enabling lightweighting and higher use of post-consumer recycled (PCR) materials.

Supplier	Qplast
Additive	Thermal Stabilizer: Yes
Applications	• Blow Molding • Food Packaging • Sheet Extrusion • Drainage Pipes • Industrial Containers
Form(s)	Pellets

Resin Properties

	Typical Value (English)		Typical Value (SI)		Test Method
Density	0.954	g/cm³	0.954	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.35	g/10 min	0.35	g/10 min	ASTM D1238

Molded Properties

Tensile Strength at Yield	4000	psi	27	MPa	ASTM D638
Elongation at Break	1000	%	1000	%	ASTM D638
Flexural Modulus — 1% Secant	179000	psi	1170	MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	180	hr	180	hr	ASTM D1693B
Durometer Hardness (Shore D, 15 sec)	59		59		ASTM D2240
Tensile Impact Strength	80	ft·lb/in²	168	kJ/m²	ASTM D1822
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	2.6	ft·lb/in²	5.4	kJ/m²	
73°F (23°C)	3.9	ft·lb/in²	8.2	kJ/m²	

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