Qplast™
QPHJ 205 Series
High Density Polyethylene

Qplast™ QPHJ 205A is a narrow molecular weight hexene copolymer tailored for a broad spectrum of injection molding applications. It offers excellent processability along with strong toughness properties, making it ideal for products requiring low warpage, glossy finishes, and resistance to impact at low temperatures.

Supplier	Qplast
Additive	QPHJ 205A: Antioxidant: yes QPHJ 205A.AS: Antistatic: yes
Applications	• Food Packaging Containers • Lawn & Garden Accessories • Houseware Articles • Soda Carrier Totes • Toys

Resin Properties

	Typical Value (English)		Typical Value (SI)		
					ASTM D1505
Density	0.952	g/cm³	0.952	g/cm³	ASTM D1505
Melt Index (190°C/2.16)	19	g/cm³	19	g/cm³	ASTM D1238
Peak Melting Temperature	267	°F	131	°C	Proprietary Method

Thermal

Deflection Temperature Under Load (DTUL) at 66psi — Unannealed	164	°F	73	°C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi — Unannealed	114	°F	46	°C	ASTM D648B

Molded Properties

Tensile Strength at Yield	3700	psi	26	MPa	ASTM D638
Elongation at Break	270	%	270	%	Proprietary Method
Flexural Modulus					ASTM D790B
1% Secant	179000	psi	1234	MPa	
2% Secant	159000	psi	1096	MPa	
Environmental Stress-Crack Resistance 10% Igepal	3	hr	3	hr	ASTM D1693B

Impact

Notched Izod Impact (-40°F (-40°C))	0.61 ft·lb/in	32 J/m	ASTM D256

Disclaimer

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