

Qplast™

QPHJ 305L

High Density Polyethylene

Qplast™ QPHJ 305L is a narrow molecular weight hexene copolymer engineered to enhance injection molding speed and productivity in thin wall applications. Its lower processing temperatures allow for the production of taste- and odor-free products, making it ideal for food and beverage packaging.

Supplier



Additive

Antioxidant: Yes

Applications

- Food Packaging Containers
- Housewares
- Food Service Trays
- Houseware Articles
- Toys

Resin Properties

	Typical Value (English)	Typical Value (SI)	ASTM D1505
Density	0.950 g/cm ³	0.950 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	32 g/10 min	32 g/10 min	ASTM D1238
Peak Melting Temperature	265 °F	130 °F	ASTM D3418

Thermal

Deflection Temperature Under Load (DTUL)	161 °F	71 °C	ASTM D648
Deflection Temperature Under Load (DTUL)	110 °F	43 °C	ASTM D648B

Molded Properties

Tensile Strength at Yield	3400 psi	24 MPa	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Modulus			ASTM D790B
1% Secant	167000 psi	1151 MPa	
2% Secant	140000 psi	1000 MPa	
Environmental Stress-Crack Resistance			ASTM D1693B
10% Igepal	< 1 hr	< 1 hr	
Notched Izod Impact (-40°F (-40°C))	0.42 ft-lb/in	23 J/m	ASTM D256

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