

# Qplast™

## QPHJ 1405

### High Density Polyethylene

Qplast™ QPHJ 1405 is a narrow molecular weight hexene copolymer designed for a variety of injection molding applications that demand easy processability and excellent toughness. This resin is ideal for producing items with low warpage, glossy surfaces, and strong cold-temperature impact performance.

Supplier



Additive

Antioxidant

Applications

- Bins
- Housewares
- Food Packaging Containers
- Closures and Dispensers
- Protective Caps

#### Resin Properties

	Typical Value (English)	Typical Value (SI)	ASTM D1505
Density	0.953 g/cm <sup>3</sup>	0.953 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	14 g/10 min	14 g/10 min	ASTM D1238
Peak Melting Temperature	264 °F	129 °C	ASTM D3418

#### Thermal

Deflection Temperature Under Load (DTUL) at 66psi — Unannealed	160 °F	71 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi — Unannealed	113 °F	45 °C	ASTM D648B

#### Molded Properties

Tensile Strength at Yield	3500 psi	24 MPa	ASTM D638
Elongation at Break	250 %	250 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	175000 psi	1200 MPa	
2% Secant	159000 psi	1095 MPa	
Environmental Stress-Crack Resistance 10% Igepal	3 hr	3 hr	ASTM D1693B

Notched Izod Impact (-40°F (-40°C))	0.77 ft·lb/in	41 J/m	ASTM D256
-------------------------------------	---------------	--------	-----------

Disclaimer

The information presented in this document is believed to be accurate as of the date of publication. However, it is provided for general informational purposes only. It does not imply any express or implied warranty or quality specification, including but not limited to warranties of merchantability or fitness for a particular purpose. Users are solely responsible for independently assessing whether the product is suitable for their intended use and ensuring that it can be used safely and in compliance with relevant laws and regulations. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document.

REV: 2024