


# Qplast™

## QPHJ 860U

### High Density Polyethylene

Qplast™ QPHJ 860U is a high density homopolymer resin known for its exceptional stiffness, combined with a strong balance of processability and impact resistance at low temperatures. This resin is ideally suited for applications that need high stiffness or enabling down-gauging. It also delivers superior performance in structural foam applications.

Supplier	
Additive	Antioxidant: Yes; UV Stabilizer: Yes
Applications	<ul style="list-style-type: none"> <li>• Cases</li> <li>• Hot Fill Packaging Pails</li> <li>• Pallets</li> <li>• Totes Bins</li> <li>• Crates</li> </ul>

#### Resin Properties

	Typical Value (English)	Typical Value (SI)	ASTM D1505
Density	0.965 g/cm <sup>3</sup>	0.965 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Peak Melting Temperature	275 °F	135 °F	ASTM D1238

#### Thermal

Deflection Temperature Under Load (DTUL) at 66 psi — Unannealed	189 °F	87 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264 psi — Unannealed	119 °F	49 °C	ASTM D648B

#### Molded Properties

Tensile Strength at Yield	4300 psi	30 MPa	ASTM D638
Elongation at Break	440 %	440 %	ASTM D638
Flexural Modulus			ASTM D790B
1% Secant	270000 psi	1900 MPa	
2% Secant	230000 psi	1600 MPa	
Environmental Stress-Crack Resistance 10% Igepal	3 hr	3 hr	ASTM D1693B

Notched Izod Impact (-40°F (-40°C))	0.89 ft·lb/in	47 J/m	ASTM D256
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