

# Qplast™

## QPI 50-2

### Impact Copolymer Polypropylene

Qplast™ QPI 50 – 2 is a medium-to-high-impact copolymer polypropylene used for injection molded large consumer and industrial parts that demand a high melt flow rate.

#### Supplier



#### Applications

- Consumer Applications
- Containers
- Totes
- Automotive Applications
- Household Goods
- Tool Boxes

#### Physical

	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.900 g/cm <sup>3</sup>	0.900 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (230°C/2.16 kg)	50 g/10 min	50 g/10 min	ASTM D1238

#### Mechanical

Tensile Strength at Yield	2700 psi	19 MPa	ASTM D638
Elongation at Yield	4 %	4 %	ASTM D638
Flexural Modulus — 1% Secant			
0.051 in/min (1.3 mm/min)	163000 psi	1120 MPa	ASTM D790A
0.51 in/min (13 mm/min)	185000 psi	1280 MPa	ASTM D790B

#### Impact

Notched Izod Impact Strength			ASTM D256A
0°F (-18°C)	0.9 ft-lb/in	48 J/m	
73°F (23°C)	1.9 ft-lb/in	100 J/m	
Gardner Impact			ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm)	217 in-lb	24.5 J	

#### Thermal

DTUL at 66psi — Unannealed	206 °F	97 °C	Proprietary Method
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#### Hardness

Rockwell Hardness	80	80	ASTM D785
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