

## ProFLOW 1000

### Product Description

ProFLOW Resins are high flow rate (MFR 1500+) polypropylene resins that quickly melt to low viscosity Newtonian fluids.

### General

<b>Material Status:</b>	Commercial: Active
<b>Availability:</b>	Globally
<b>Features:</b>	Semi Crystallinity/Low Velocity
<b>Uses:</b>	Multiple
<b>Processing Method:</b>	Injection Molding, Extrusion, Blown Film, Compounding

### ASTM & ISO Properties

<u>Thermal</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Melting Point	161	°C	DSC
<u>Physical</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Density	0.92	g/cc	ISO 1183
Molding Shrinkage	N/A	N/A	N/A
<u>Mechanical</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Tensile Modulus	180,000	psi	ISO 527-2
Tensile Strength	5,000	psi	ISO 527-2
<u>Impact</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Notched Izod	0.14	ft-lb/in	ISO 180
<u>Rheological</u>	<u>Nominal Value</u>	<u>Unit</u>	<u>Test Method</u>
Melt Index	~1500	g/10 min	230°C, 0.0825" ID, 2.16 kg
Modified MFR	5.5	g/10 min	230°C, 0.0200" ID, 2.16 kg
Melt Viscosity	61	poise	190°C, 100 sec <sup>-1</sup>

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