

## Technical Data Sheet

### *Polyfort* PP4B0GY7779GRY



Polypropylene Copolymer

#### Product Description

*Polyfort* PP4B0GY7779GRY is a Polypropylene Copolymer material and is typically used in Injection Molding applications. Features include: Copolymer, and High Impact Resistance.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Copolymer; High Impact Resistance
<b>Forms</b>	Pellets

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate	9.5	g/10 min	ASTM D1238
Density - Specific Gravity	0.908	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Elongation at Yield, (23 °C, 3.18 mm)	12	%	ASTM D638
Tensile Strength at Yield, (23 °C)	23.4	MPa	ASTM D638
Flexural Modulus, (Tangent)	827	MPa	ASTM D790
<b>Impact</b>			
Gardner Impact	22.6	J	ASTM D5420
Notched Izod Impact, (23 °C, 3.18 mm)	160	J/m	ASTM D256
<b>Hardness</b>			
Durometer Hardness, (Shore D)	65		ASTM D2240
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	48.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	71.1	°C	ASTM D648
<b>UL Information</b>			
Flame Rating, (1.6 mm)	HB		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	82 to 104	°C
Processing (Melt) Temp	193 to 232	°C
Front Temperature	177 to 232	°C
Middle Temperature	177 to 232	°C
Rear Temperature	177 to 232	°C
Injection Rate	Moderate	
Back Pressure	0.138 to 2.07	MPa
Mold Temperature	21 to 49	°C
Cushion	6.35 to 12.7	mm