

# DualPoly 20GF

Polypropylene Copolymer

EnCom Polymers

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## Technical Data

### Product Description

20% Glass Reinforced Copolymer Polypropylene

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">EnCom Polymers</a>
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Uses	• Automotive Applications • Lawn and Garden Equipment
Appearance	• Black
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.02	1.02 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	6800 psi	46.9 MPa	ASTM D638
Flexural Modulus - Tangent (73°F (23°C))	464000 psi	3200 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.0 ft·lb/in	110 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	275 °F	135 °C	
264 psi (1.8 MPa), Unannealed	266 °F	130 °C	

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 °F	82 °C
Drying Time	2.0 hr	2.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Suggested Shot Size	25 to 75 %	25 to 75 %
Rear Temperature	375 to 450 °F	191 to 232 °C
Middle Temperature	375 to 450 °F	191 to 232 °C
Front Temperature	375 to 450 °F	191 to 232 °C
Nozzle Temperature	375 to 450 °F	191 to 232 °C
Processing (Melt) Temp	375 to 450 °F	191 to 232 °C
Mold Temperature	90 to 160 °F	32 to 71 °C
Back Pressure	25.0 to 100 psi	0.172 to 0.689 MPa
Vent Depth	1.0E-3 to 1.5E-3 in	0.025 to 0.038 mm

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.



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Where to Buy

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Supplier

**EnCom Polymers**  
Evansville, Evansville USA  
**Telephone:** 812-421-7700  
**Web:** <http://www.encompolymers.com/>

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Distributor

Please contact the supplier to find a distributor for DualPoly 20GF

