

PPC5GF2-Black

A 20% glass reinforced impact modified polypropylene

TYPICAL APPLICATIONS:

HVAC units, fan shrouds, and other structural automotive components.

Product Description:

The properties shown below for this filled blend are typical for a 20% glass reinforced polypropylene. This product satisfies many application needs. Special compounds are available.

Approved To: WSK-M4D731-A2, GMP.PP.004
GMP.PP.029 (ISO), WSS-M4D731-B1
MS-DB500 CPN 4508

Features and Options:

- Heat stabilized for extended use at high temperatures.
- High heat deflection temperature.
- Excellent flexural and tensile properties.
- Available in Natural.
- Tested at $23 \pm 2^{\circ}\text{C}$ ($73.4 \pm 3.6^{\circ}\text{F}$) and $50 \pm 10\%$ relative humidity unless otherwise noted

Physical Properties	Typical Values*	Test Method
Melt Flow	12 g/10 min	ASTM D1238 ISO 1133
Filler Content	20%	ASTM D5630 ISO 3451
Density/Specific Gravity	1.04	ASTM D792 ISO 1183
ASTM Testing		
Notched Izod Impact @ 23°C	107 J/m	ASTM D256
Tensile Strength @ Yield (50mm/minute)	74 MPa	ASTM D638
Flexural Modulus (1.27mm/minute)	4,200 MPa	ASTM D790
Deflection Temperature @ 264 psi	149°C	ASTM D648
ISO Testing		
Notched Izod Impact @ 23°C	9 kJ/m ²	ISO 180
Notched Izod Impact @ -40°C	7 kJ/m ²	ISO 180
Notched Charpy Impact @ 23°C	9 kJ/m ²	ISO 179
Tensile Strength @ Yield (5mm/minute)	66 MPa	ISO 527
Tensile Strength @ Break (5mm/minute)	65 MPa	ISO 527
Tensile Strength @ Yield (50mm/minute)	75 MPa	ISO 527
Flexural Modulus (2mm/minute)	3,900 MPa	ISO 178
Flexural Strength (2mm/minute)	97 MPa	ISO 178
Deflection Temperature @ 1820 KPa 455 KPa	147°C 159°C	ISO 75
Deflection Temperature @ 1820 KPa (Flatwise) 455 KPa	138°C 154°C	ISO 75

NOTE: Custom colors available upon request.

* Values given are typical and should not be interpreted as product specification. To obtain values for specific application purposes, contact your Washington Penn Plastic representative.

The results reported are typical and based on reliable testing procedures. However, due to variable processing methods and conditions, no guarantees or warranties are expressed or implied, including expressions of fitness for purpose or merchantability. No recommendations are made to infringe on patents.