

**Washington Penn Plastic Co., Inc.**

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# PPH1CF4-Black

A 40 % calcium filled extrusion grade polypropylene homopolymer.

**TYPICAL APPLICATIONS:**

HVAC components, automotive interior trim components, and various other applications.

**Product Description:**

The properties shown below are typical for a 40 % calcium filled homopolymer. This basic product satisfies the needs of many applications.

**Approved to:** **ESB-M4D365-B2**  
**GMP.PP.080**  
**MS-DB500 CPN 4191**  
**WSS-M4D365-B3**  
**ROH# 90159**  
**ASTM D4000, ASTM D4101**

**Features and Options:**

- Heat stabilized to prevent mechanical and visual degradation
- Excellent balance of stiffness and impact while maintaining good processability
- Tested at  $23 \pm 2^{\circ}\text{C}$  ( $73.4 \pm 3.6^{\circ}\text{F}$ ) and  $50 \pm 5\%$  relative humidity unless otherwise noted.

Physical Properties	Typical Values*	Test Method
Melt Flow	0.8 g/10min	ASTM D1238 ISO 1133
Filler Content	41%	ASTM D5630 ISO 3451
Density/Specific Gravity	1.25	ASTM D792 ISO 1183
<b>ASTM Testing</b>		
Notched Izod Impact @ 23°C	198 J/m	ASTM D256
Un-notched Izod Impact @ 23°C	No Break	ASTM D256
Tensile Strength @ Yield (50mm/minute)	25 MPa	ASTM D638
Tensile Strength @ Ultimate (50mm/minute)	25 MPa	ASTM D638
Tensile Elongation @ Break (50mm/minute)	240%	ASTM D638
Flexural Modulus (1.27mm/minute)	2,500 MPa	ASTM D790
Deflection Temperature @ 264 psi 66 psi	65°C 114°C	ASTM D648
<b>ISO Testing</b>		
Notched Izod Impact @ 23°C	10 kJ/m <sup>2</sup>	ISO 180
Notched Izod Impact @ -40°C	3 kJ/m <sup>2</sup>	ISO 180
Notched Charpy Impact @ 23°C	7 kJ/m <sup>2</sup>	ISO 179
Tensile Strength @ Yield (5mm/minute)	24 MPa	ISO 527
Tensile Strength @ Break (5mm/minute)	21 MPa	ISO 527
Tensile Elongation @ Break (5mm/minute)	570%	ISO 527
Tensile Strength @ Yield (50mm/minute)	25 MPa	ISO 527
Flexural Modulus (2mm/minute)	2,500 MPa	ISO 178
Deflection Temperature @ 1820 KPa 455 KPa	65°C 112°C	ISO 75
Deflection Temperature @ 1820 KPa (Flatwise)	64°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.

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