

# PPH4TF4-Black

A 38% talc-reinforced polypropylene homopolymer

## TYPICAL APPLICATIONS:

These products are widely used under the hood in automotive applications

## Product Description:

The properties shown below for this filled blend are typical for a 38% talc-reinforced material. It is a high-modulus product with a good balance of properties. Special compounds are available to meet application requirements.

**Approved To: MS-DB500 CPN 3549, NVB 10.056 C  
WSS-M4D643-B1, WSK-M4D644-A  
GMW16528**

## Features and Options:

- High heat deflection temperature.
- UV stabilization for improved weatherability available.
- Heat stabilized.
- High stiffness.
- Tested at 23 ± 2°C (73.4 ± 3.6°F) and 50 ± 10% relative humidity unless otherwise noted

Physical Properties	Typical Values*	Test Method
Melt Flow	13 g/10 min	ISO 1133
Filler Content	38%	ISO 3451
Density	1.23 g/cm <sup>3</sup>	ISO 1183
Notched Izod Impact @ 23°C	3 kJ/m <sup>2</sup>	ISO 180
Notched Izod Impact @ -40°C	2 kJ/m <sup>2</sup>	ISO 180
Notched Izod Impact @ 23°C	4 kJ/m <sup>2</sup>	ISO 180/1B
Notched Charpy Impact @ 23°C	2 kJ/m <sup>2</sup>	ISO 179
Un-notched Charpy Impact @ 23°C	18 kJ/m <sup>2</sup>	ISO 179
Tensile Strength @ Yield (5mm/minute)	31 MPa	ISO 527
Tensile Elongation @ Yield (5mm/minute)	5%	ISO 527
Tensile Strength @ Yield (50mm/minute)	31 MPa	ISO 527
Tensile Modulus (1mm/minute)	4,300 MPa	ISO 527
Flexural Modulus (2mm/minute)	4,200 MPa	ISO 178
Deflection Temperature @ 1820 KPa 455 KPa	94°C 139°C	ISO 75
Deflection Temperature @ 1820 KPa (Flatwise)	87°C	ISO 75
Deflection Temperature @ 1820 KPa (Annealed)	106°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.