

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

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# PRC25TF2-Black

A 20% talc-reinforced polypropylene homopolymer with a minimum of 25% post-consumer recycled content.

**TYPICAL APPLICATIONS:**

HVAC units, fan shrouds, and other automotive components.

**Product Description:**

Properties shown below for this filled blend are typical for a 20% talc-reinforced polypropylene homopolymer. This product contains a minimum of 25% post-consumer recycled resin.

**Approved To: WSH-M4D293-B2, GMP.PP.081R  
MS-DB500 CPN 4375  
VAM-PP010000-T20BKH25-App 002  
ASTM D4000, ASTM D4101  
WRS-M4D729-B6, B9**

**Features and Options:**

- High heat deflection temperature.
- Heat stabilized for use at elevated temperatures.
- Custom versions of this compound are available.
- Available in certain colors.
- 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	6 g/10 min	ASTM D1238 ISO 1133
Filler Content	20%	ASTM D5630 ISO 3451
Density/Specific Gravity	1.06	ASTM D792 ISO 1183
<b>ASTM Testing</b>		
Notched Izod Impact @ $23^{\circ}\text{C}$	35 J/m	ASTM D256
Tensile Strength @ Yield (50mm/minute)	31 MPa	ASTM D638
Flexural Modulus (1.27mm/minute)	2,300 MPa	ASTM D790
Deflection Temperature @ 264 psi	$70^{\circ}\text{C}$	ASTM D648
<b>ISO Testing</b>		
Notched Izod Impact @ $23^{\circ}\text{C}$	$3.5 \text{ kJ/m}^2$	ISO 180
Notched Izod Impact @ $-40^{\circ}\text{C}$	$2 \text{ kJ/m}^2$	ISO 180
Notched Izod Impact @ $-10^{\circ}\text{C}$	$2 \text{ kJ/m}^2$	ISO 180
Notched Charpy Impact @ $23^{\circ}\text{C}$	$3 \text{ kJ/m}^2$	ISO 179
Tensile Strength @ Yield (5mm/minute)	29 MPa	ISO 527
Tensile Elongation @ Yield (5mm/minute)	10%	ISO 527
Tensile Strength @ Yield (50mm/minute)	31 MPa	ISO 527
Tensile Modulus (1mm/minute)	2,500 MPa	ISO 527
Flexural Modulus (2mm/minute)	2,300 MPa	ISO 178
Deflection Temperature @ 1820 KPa 455 KPa	$71^{\circ}\text{C}$ $118^{\circ}\text{C}$	ISO 75
Deflection Temperature @ 1820 KPa (Flatwise)	$67^{\circ}\text{C}$	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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