



**Washington Penn Plastic Co., Inc.**  
Custom Compounder of Mineral-Filled Polyolefins  
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# TPO-6081 UV Black

## Development Data Sheet

The data presented is based on less than ten lots of material and both the product and its properties may be subject to change prior to final commercialization.

### Product Description:

The properties below are typical for this 15% mineral-reinforced thermoplastic olefin alloy in pre-color black, which was designed to meet the needs of various exterior automotive applications.

**Tested To: TSM5608G Class 1 (TSOP-1)**

### Features and Options:

- Heat-stabilized
- Light-stabilized
- High impact resistance
- 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	27 g/10min	ISO 1133
Filler Content	15%	ISO 3451
Specific Gravity	1.00	ISO 1183
Notched Charpy Impact @ $23^{\circ}\text{C}$	28 kJ/m <sup>2</sup>	ISO 179
Notched Charpy Impact @ $-30^{\circ}\text{C}$	3 kJ/m <sup>2</sup>	ISO 179
Tensile Strength @ Yield (50mm/minute)	19 MPa	ISO 527
Tensile Elongation @ Break (50mm/minute)	76%	ISO 527
Tensile Modulus (1mm/minute)	1,800 MPa	ISO 527
Flexural Modulus (2mm/minute)	1,500 MPa	ISO 178
Flexural Strength (2mm/minute)	27 MPa	ISO 178
Deflection Temperature @ 1820 KPa 455 KPa	53°C 94°C	ISO 75
Multiaxial Impact @ $23^{\circ}\text{C}$	24.5 J	ASTM D3763
Multiaxial Impact @ $-30^{\circ}\text{C}$	21 J	ASTM D3763
Rockwell Hardness	48 R Scale	ASTM D785

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.