## Washington Penn Plastic

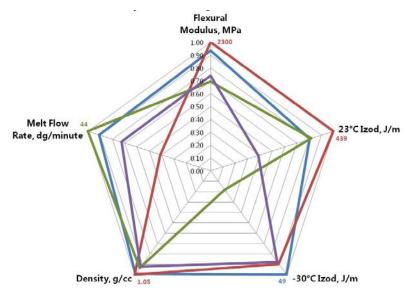
# **Light Weight Technology**

Product Description: Washington Penn Plastic Light Weight Technology is a series of highly engineered polyolefins developed to address the market need for reducing weight in plastics parts.

Over the last several years Washington Penn Plastic has partnered with Automotive OEMs to lead the way in integrating light weighting TPO solutions into vehicle designs. Incorporation of WPP Light Weight TPO **Technology** has assisted in driving improvements in fuel efficiency, reducing vehicle emissions and lowering operating costs without sacrificing the performance of individual components. Industries such as Packaging, Building & Construction, Appliance and Consumer are following trend and are incorporating WPP Light Weight Technology in next generation applications to capitalize on material savings, decrease in part cost and environmental benefits.

Two common approaches for decreasing weight are material density reduction and/or part thinning. Each approach requires a unique material solution in order to maintain the part performance and processing consistency while optimizing cost. If your industry is seeking to improve material efficiencies, please contact us to learn how WPP can customize a **Light Weight Technology** solution to meet your application needs.

## **Survey of WPP Light Weighting TPO Solutions**



#### 23°C Izod **Flexural Melt Flow** Density, **Product Modulus** Impact, Rate, g/cc dg/min . MPa J/m TPO-2600 2600 360 16 1.06 SUV TPO-8793 2300 300 42 1.04 **UVP HF** TPO-2170 2000 90 26 0.92 LW UV TPO-3977 1700 0.97 170 32 LW UVP TPO-1244 1600 360 44 0.98 LW HF



### **Typical Applications:**

#### **Vehicle Exteriors**

- **Bumpers**
- **Cowl Screens**
- Accent Panels

#### Vehicle Interiors

- Instrument Panels (IP)
- **Knee Bolsters**
- Pillar and Door Trim

#### **Key Characteristics:**

## **Reduced Material Density**

- Maintain stiffness
- Maintain impact
- Maintain viscosity

#### **Part Thinning**

- Increase stiffness
- Increase impact
- Reduce viscosity

Washington Penn Plastic Co., Inc. is a leading provider of polypropylene and polyethylenebased compounds. For more than 60 years, WPP has worked with customers to discover, innovate, and develop practical polyolefin solutions.

## Key Technologies & Offerings:

- Mineral Reinforced
- Glass Fiber Reinforced
- TPO and Soft Touch TPE
- Masterbatches
- Light Weight and Sustainability Reinforcing Agents
- Flame Retardants
- UV Stabilization
- Scratch & Mar

### Markets We Serve:



**Automotive** 



**Appliances** 



Construction



Consumer



Packaging

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