

### CUSTOM AND STANDARD TPVs OFFERING EXCELLENT ELASTOMER PERFORMANCE, PROCESSING, AND VALUE

OnFlex™-V Thermoplastic Elastomers are based on thermoplastic vulcanizate (TPV) technology and are compounded utilizing select cross-linked rubbers such as EPDM dispersed into a polyolefin resin phase. These materials have been engineered to offer improved compression set resistance, chemical resistance, and thermal property performance versus other standard TPE materials. They are a preferred alternative to typical thermoset rubber for both injection molding and extrusion applications where reprocessing of scrap is desirable.

#### KEY CHARACTERISTICS

OnFlex-V TPE compounds have been developed for ease of conversion in injection molding, profile extrusion, and blow molding processes and are available in a range of hardnesses. They offer designers additional freedom in engineering parts where traditional thermoset materials have been used. These materials deliver the following features and benefits:

- ▶ Wide range of hardnesses (35A to 40D)
- ▶ High service temperature capability (up to 135°C)
- ▶ Improved compression set resistance
- ▶ Excellent colorability and low odor
- ▶ Flexibility over a wide temperature range
- ▶ Resistance to oils, greases, and hydrocarbons
- ▶ Low coefficient of friction (COF) grades
- ▶ UV stabilized - weatherable grades
- ▶ Recyclable

#### ADDITIONAL PRODUCT INFORMATION

OnFlex-V TPEs are very forgiving materials to process and are not overly temperature-sensitive. These compounds can be processed as single materials or co-processed onto substrate materials including polypropylene, nylon, and EPDM materials for multi-layer performance. They can be converted on most standard thermoplastic injection molding, blow molding, and extrusion type equipment and can be reprocessed and reused to reduce scrap normally associated with thermoset elastomer materials.

**For more information,** please visit [PolyOne.com](http://PolyOne.com), or call 1-866-POLYONE and ask for assistance with the OnFlex-V product line.

## MARKETS AND END-USE APPLICATIONS

OnFlex™-V TPEs are ideal for a variety of markets and situations including:

▶ **Automotive**

Weatherseal systems, soft-touch knobs and grips, drink holders, coin holders, car care mats, air handling systems, key holders

▶ **Electrical and Electronics**

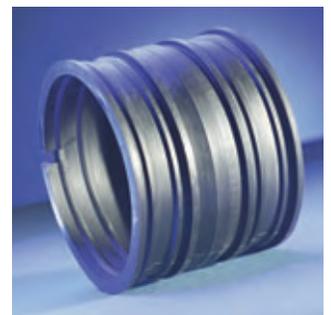
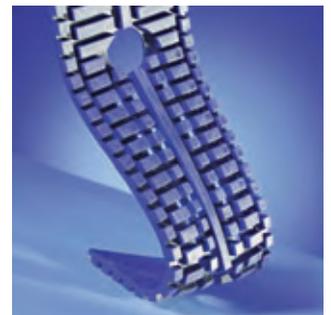
Cable jacketing, cable restraints, wire clamps, sealing rings, cable-inlets, electrical plugs, housing feet, sound attenuation, mounting hardware, grommets

▶ **Building and Construction**

Window and architectural glazing seals, drainage seals, flooring accessories, roadway expansion joints, traffic markers, protective bumpers

▶ **Consumer Goods**

Household appliances, kitchen utensil grips, sporting goods, power and hand tool grips, footwear, hunting knives, exercise equipment, fitness mats



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