



» PRODUCT BULLETIN

OnFlex™ Thermoformable TPEs with Antistatic Properties

Cabin interiors in electric vehicles, commercial and utility vehicle flooring, mass transit platforms, and large-format industrial flooring share demanding material surface requirements: withstand daily wear, manage electrostatic discharge (ESD), resist harsh chemicals and cleaners, and deliver a premium aesthetic finish. These parts are often large, deeply contoured, and geometrically complex, making material specification challenging.

Traditional materials such as thermoset rubber, injection-molded TPEs, and flexible PVC force designers to accept tradeoffs in weight, cost, part size, and aesthetic options. OnFlex™ thermoformable TPEs with antistatic properties resolve these performance and processing challenges in a single material.

Formulated for sheet extrusion and thermoforming, they deliver stable, inherent antistatic performance, non-slip properties, dust and chemical resistance, and customizable appearance and tactile finishes. This advanced technology enables large and deeply contoured components in a single forming step and faster design iterations while also reducing weight, assembly complexity, and tooling costs for OEMs and manufacturers.

KEY CHARACTERISTICS

- Non-migrating, inherent antistatic performance with surface resistivity of $10^{10} \Omega/\text{sq}$
- Coefficient of friction (CoF) >0.5 , providing a non-slip surface
- Extrudable and thermoformable
- Conforms well to complex structures, maintaining part quality and details across large-scale applications
- Abrasion and chemical resistance for extended service life
- Colorable and customizable special effects

MARKETS & APPLICATIONS

OnFlex thermoformable TPEs with antistatic properties are well-suited for transportation and industrial applications, especially large or complex components that could also benefit from lightweighting or streamlined manufacturing.

- Cabin flooring and trim parts in electric vehicles, buses, trucks, and utility vehicles
- Industrial floor mats



Technical Properties	Test Method	OnFlex 2835-90 AS
Surface Resistivity	ASTM D257	$10^{10} \Omega/\text{sq}$
Specific Gravity	ASTM D792	0.907
Tensile Elongation	ASTM D412	680%
Apparent Viscosity	ASTM D3895	15.4 Pa·s
Colorability	Good	
Processing Options	Sheet extrusion (monolayer, A layer, or B layer), thermoforming, and injection molding	

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