

OPTI-PREN™ TPV 6414-87A

Product description

A hard, colorable polyolefinic thermoplastic vulcanizate (TPV) with good fluid chemical resistance, as well as good physical properties. It has been specifically formulated for applications in contact with copper. It can be processed on conventional thermoplastics equipment for blow molding, injection molding or extrusion, thermoforming or vacuum forming. This grade of Opti-Pren TPV is polyolefin-based and completely recyclable.

Applications

- Wire & Cable jacketing
- Other Electrical applications

Physical properties	Value ¹ (SI)	Test
Density	1.04g/cm ³	ISO 1183
Aspect	Pellets	
Shore Hardness (15sec at 23°C)	88 A	ISO 868

Mechanical properties	Value ^{1,2} (SI)	Test
Tensile Stress at 20% Across Flow (23°C)	5.2MPa	ISO 37
Tensile Stress at 50% Across Flow (23°C)	6.1MPa	ISO 37
Tensile Stress at 100% Across Flow (23°C)	6.5MPa	ISO 37
Tensile Stress at Break Across Flow (23°C)	17.1MPa	ISO 37
Tensile Strain at Break Across Flow (23°C)	808%	ISO 37
Tear Strength Across Flow (25°C)	53kN/m	ISO 34-1/B

¹ Values listed here are typical averages and should not be taken as our Product Specification

² Stated values are measured on molded plaques, fan-gated, size 102.0mm x 152.0mm x 2.0mm. Tensile strength and tensile stress are measured across flow direction.

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Processing Information

Desiccant drying for 3 hours at 80°C is recommended prior to processing.

For specific processing guidelines, please refer to those applicable to Santoprene™ TPV 201-87, which this grade of Opti-Pren TPV is based on; these are available upon request.

Note that this grade is incompatible with acetal and PVC.

Additional Information

RoHS2 (Directive 2011/65/EU) Compliant, as amended up to 2019/1846/EU of 5 November 2019

Contact Information

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