

OPTI-PREN™ TPV 6550-55A Black 9005

Product description

A soft, special black specialty thermoplastic vulcanizate (TPV) with excellent adhesion onto ABS, PS, PC, PMMA, ASA, PET and PPO/PS blends. It can be processed on conventional thermoplastics equipment for injection molding. This grade of Opti-Pren TPV is polyolefin-based and completely recyclable.

Applications

- 2K-molding
- Flexible Grips
- Living Hinges
- Consumer Applications
- Kitchenware
- Seals

| Physical properties | Value ¹ (SI) | Test |
|--------------------------------|-------------------------|----------|
| Density | 1.04g/cm ³ | ISO 1183 |
| Aspect | Pellets | |
| Shore Hardness (15sec at 23°C) | 53 A | ISO 868 |

| Mechanical properties | Value ^{1,2} (SI) | Test |
|---|---------------------------|---------|
| Tensile Stress at 100% Across Flow (23°C) | 1.0MPa | ISO 37 |
| Tensile Stress at Break Across Flow (23°C) | 4.1MPa | ISO 37 |
| Tensile Strain at Break Across Flow (23°C) | 600% | ISO 37 |
| Compression Set (125°C) 70.0h, Type A | 55% | ISO 815 |

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. Compression set at 25% deflection.

Processing Information

Desiccant drying for 3 hours at 80°C is recommended. For two-shot injection molding, recommended melt temperature is 210° to 230°C with mold temperatures of 30° to 50°C. For insert injection molding, recommended melt temperature is 230° to 250°C with mold temperature of 25° to 50°C.

Additional Information

UL listed:

- File # QMFZ2.E356313 Plastics - Component
- File # QMFZ8.E356313 Plastics Certified for Canada - Component

RoHS2 (Directive 2011/65/EU) Compliant RoHS2

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Contact information

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