



Technical Data Sheet

ENGAGE™ 11547T Polyolefin Elastomer

Description

ENGAGE™ 11547T Polyolefin Elastomer is a polyolefin elastomer offering high flow and excellent rubber loading efficiency as superior impact modifier in thermoplastic polyolefin (TPO) compounds.

Its improved toughening capability compared to other commercially available polyolefin elastomers allows for greater ease in optimizing elastomer levels to meet impact requirements for global automotive specifications.

TPO formulations containing ENGAGE™ 11547T Polyolefin Elastomer combine very good processing behavior with an excellent stiffness/toughness balance for automotive parts, such as bumper fascia. The design of the ENGAGE™ 11547T Polyolefin Elastomer enables shorter injection molding cycle time for the TPO compound. Its design characteristics contribute to morphology control and improved temperature resistance for final parts.

Main Characteristics

- High rubber loading efficiency for optimum cost/performance balance
- Improved toughness for better stiffness/toughness balance
- Excellent flow characteristics
- Demonstrated improved cycle time
- High melting point for improved temperature resistance
- Pellet form with partitioning agent for ease of handling

Applications

- Impact modification of TPO
- Injection molded polyolefin compounds

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.866	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Mechanical			
Tensile Modulus – 100% Secant (Compression Molded)	1.12	MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	1.45	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	1000	%	ASTM D638

1. Typical properties: these are not to be construed as specifications. Users should confirm results by their own tests.
2. ASTM: American Society for Testing and Materials

Properties (Cont.)

Elastomers	Nominal Value	Unit	Test Method
Tear Strength	20	kN/m	ASTM D624
Hardness			
Durometer Hardness (Shore A, Compression Molded)	52		ASTM D2240
Thermal			
Glass Transition Temperature	-63	°C	Internal Method
Melting Temperature (DSC)	117	°C	Internal Method

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