

## ENGAGE™ 11567 Polyolefin Elastomer

### Overview

ENGAGE™ 11567 is a polyolefin elastomer offering excellent rubber loading efficiency for superior impact modification in thermoplastic polyolefin (TPO) compounds. Its improved toughening efficiency compared to other commercially available polyolefin elastomers allows for greater ease in optimizing elastomer levels to meet impact resistant requirements in global automotive specifications. TPO formulations containing ENGAGE 11567 combine good processing behavior with an excellent stiffness/toughness balance for automotive parts, such as bumper fascia. The design of the ENGAGE 11567 polyolefin elastomer enables shortening the injection molding cycle time for the TPO compound. Its design 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
- · Good 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

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.866	g/cm³	0.866	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	232	psi	1.60	MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	739	psi	5.10	MPa	ASTM D638
Tensile Elongation					ASTM D638
Break, Compression Molded	600	%	600	%	
Hardness	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Durometer Hardness					ASTM D2240
Shore A, 1 sec, Compression Molded	60		60		
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Glass Transition Temperature	-79.6	°F	-62.0	°C	Dow Method
Melting Temperature (DSC)	250	°F	121	°C	Dow Method

#### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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