ENGAGE™ 11567

The Dow Chemical Company - Polyolefin Elastomer

Tuesday, November 5, 2019

General Information

Product Description

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

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Forms	• Pellets	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.868		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 100% Secant (Compression Molded)	232	psi	ASTM D638
Tensile Strength (Break, Compression Molded)	739	psi	ASTM D638
Tensile Elongation (Break, Compression Molded)	600	%	ASTM D638
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	60		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-79.6	°F	Internal Method
Melting Temperature (DSC)	250	°F	Internal Method

Notes

[1] Typical properties: these are not to be construed as specifications.