ENGAGE™ 7457

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE 7457 Polyolefin Elastomer is an ethylene butene copolymer developed for use as a high efficiency impact modifier for thermoplastic polyolefin (TPO) applications.
This product is delivered with a nominal talc partitioning agent to assist in material handling.
Main Characteristics:
Excellent polypropylene dispersion
Enhanced impact performance
Pellet form
Talc dusted (untreated, 1µm)
Applications
TPO Impact Modification

General Information			
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.862	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.6	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	9	MU	ASTM D1646
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, Molded	50		ASTM D2240
Shore D, Molded	12		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 100% Secant [1] (Compression Molded)	1.31	MPa	ASTM D638
Tensile Strength [2] (Break, Compression Molded)	1.79	MPa	ASTM D638
Tensile Elongation [3] (Break, Compression Molded)	> 600	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: Molding	4.14	MPa	ASTM D790
2% secant: Molding	4.69	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [4]	19.3	kN/m	ASTM D624
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-56.1	°C	Internal method
Melting Temperature (DSC) [5]	40.0	°C	Internal method
NOTE			
1.	510 mm/min		
2.	510 mm/min		

3.	510 mm/min
4.	C mould
5.	10°C/min

Recommended distributors for this material

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