Technical Information

ENGAGE™ 7467
Polyolefin Elastomer

Overview

ENGAGE™ 7467 Ethylene Butene Copolymer is a high performance copolymer that offers superior impact properties for more demanding TPO applications

Main Characteristics:

- Pellet form
- Superior impact performance
- Very low density

Applications:

- Polymer modification

Complies with:

- U.S. FDA FCN 368
- EU, No 10/2011
- Consult Regulations for details

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.862	g/cm³	0.862	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	1.2	g/10 min	1.2	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 250°F (121°C))	19	MU	19	MU	ASTM D1646
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus - 100% Secant [1] (Compression Molded)	203	psi	1.40	MPa	ASTM D638
Tensile Strength [1] (Break, Compression Molded)	290	psi	2.00	MPa	ASTM D638
Tensile Elongation [1]					ASTM D638
Break, Compression Molded	600	%	600	%	
Flexural Modulus					ASTM D790
1% Secant : Compression Molded	595	psi	4.10	MPa	
2% Secant : Compression Molded	580	psi	4.00	MPa	
Elastomers	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tear Strength [2]	123	lbf/in	21.6	kN/m	ASTM D624
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness					ASTM D2240
Shore A, 1 sec, Compression Molded	52		52		
Shore D, 1 sec, Compression Molded	12		12		
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Glass Transition Temperature	-72.4	°F	-58.0	°C	Dow Method
Melting Temperature (DSC) [3]	93.2	°F	34.0	°C	Dow Method
Peak Crystallization Temperature (DSC)	55.4	°F	13.0	°C	Dow Method
Additional Information					
Properties measured on product without talc dusting.					

Notes

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

[1] 20 in/min (510 mm/min)

[2] Die C

[3] 10°C/min