

ENGAGE™ XLT 8677

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ XLT 8677 Polyolefin Elastomer is an ethylene octene 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	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.870	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	45	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	51		
Shore D, Compression Molded	11		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	1.21	MPa	ASTM D638
Tensile Strength ² (Break, Compression Molded)	3.00	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	> 1000	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	6.55	MPa	
2% Secant : Compression Molded	6.34	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	26.3	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-65.0	°C	Internal Method
Melting Temperature (DSC) ⁴	118	°C	Internal Method
NOTE			
1.	510 mm/min		
2.	510 mm/min		

3.	510 mm/min
4.	10°C/min

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