

ENGAGE™ HM 7289

Polyolefin Elastomer

The Dow Chemical Company

Message:

High elasticity with good elastic recovery

High melt strength

Good impact strength

Good flow characteristics

ENGAGE™ HM 7289 Polyolefin Elastomer Resin is a unique olefinic composition for improved processability and material handling. This product is produced via gas phase polymerization from Dow. This is an ethylene-butene copolymer exhibiting high flexibility, elasticity, and high melt strength for film and extruded sheet applications.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.891	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, 150°C)	74	MU	ASTM D1646
Total Crystallinity - %	27.5		Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
1.00 mm, Extruded ¹	88		
Shore A, Compression Molded	88		
Shore D, Compression Molded	31		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ² (Compression Molded)	2.80	MPa	ASTM D638
Tensile Strength ³ (Break, Compression Molded)	3.70	MPa	ASTM D638
Tensile Elongation ⁴ (Break, Compression Molded)	200	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	49.1	MPa	
2% Secant : Compression Molded	43.5	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D412
Across Flow : Break, 1.00 mm	14.1	MPa	
Flow : Break, 1.00 mm	20.6	MPa	
Tensile Elongation			ASTM D412
Across Flow : Break, 1.00 mm	650	%	
Flow : Break, 1.00 mm	670	%	
Tear Strength ⁵			ASTM D624

-- ⁶	56.6	kN/m	
Across Flow : 1.00 mm ⁷	65.0	kN/m	
Flow : 1.00 mm ⁸	68.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-52.2	°C	Internal Method
Vicat Softening Temperature	53.0	°C	ASTM D1525
Melting Temperature (DSC) ⁹	98.9	°C	Internal Method
NOTE			
1.	Extruded sheet		
2.	510 mm/min		
3.	510 mm/min		
4.	510 mm/min		
5.	Die C		
6.	Compression Molded		
7.	Extruded sheet		
8.	Extruded sheet		
9.	10°C/min, Dow method, complete protocols available upon request.		

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