ENGAGE™ HM 7280

Polyolefin Elastomer

The Dow Chemical Company

Message:

High elasticity with good elastic recovery

High melt strength

Good impact strength

Good flow characteristics

ENGAGE™ HM 7280 Polyolefin Elastomer Resin is produced via gas phase polymerization from Dow. This is an ethylene-butene copolymer exhibiting high flexibility and elasticity. It can be utilized in monolayer and coextruded films and in blends with other polyolefins to enhance melt strength and toughness of the structure.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.884	g/cm³	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)	42	MU	ASTM D1646
Total Crystallinity - %	24.7		Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
1.00 mm, Extruded ¹	81		
Shore A, Compression Molded	84		
Shore D, Compression Molded	29		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ² (Compression Molded)	4.50	МРа	ASTM D638
Tensile Strength ³ (Break, Compression Molded)	5.10	МРа	ASTM D638
Tensile Elongation ⁴ (Break, Compression Molded)	310	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	28.2	MPa	
2% Secant : Compression Molded	25.3	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break, 1.00 mm)	21.7	MPa	ASTM D412
Tensile Elongation (Break, 1.00 mm)	640	%	ASTM D412
Tear Strength ⁵			ASTM D624
1.00 mm ⁶	55.0	kN/m	
⁷	46.9	kN/m	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-43.0	°C	Internal Method

Vicat Softening Temperature	60.0	°C	ASTM D1525		
Melting Temperature (DSC) ⁸	116	°C	Internal Method		
NOTE					
	Extruded sheet at 40 mil (1.0 mn	٦)			
	thickness with no significant				
	difference between machine and	l			
1.	cross-directional properties.				
2.	510 mm/min				
3.	510 mm/min				
4.	510 mm/min				
5.	Die C				
	Extruded sheet at 40 mil (1.0 mn	n)			
	thickness with no significant				
	difference between machine and	i			
6.	cross-directional properties.				
7.	Compression Molded				
	10°C/min Dow Method, complet	re			
	protocols and results available				
8.	upon request.				

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