

ENGAGE™ 7270

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 7270 Polyolefin Elastomer is a general-purpose copolymer designed to provide good cost/performance balance in polymer modification applications.

Main Characteristics:

Pellet form

Applications:

Polymer modification

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	24	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	80		
Shore D, 1 sec, Compression Molded	26		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	3.70	MPa	ASTM D638
Tensile Strength ² (Break, Compression Molded)	13.9	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	720	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	22.5	MPa	
2% Secant : Compression Molded	22.1	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴	52.9	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-44.0	°C	Internal Method
Vicat Softening Temperature	50.0	°C	ASTM D1525
Melting Temperature (DSC) ⁵	64.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	50.0	°C	Internal Method
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	510 mm/min		

4.	Die C
5.	10°C/min

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