ENGAGE™ 8402

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 8402 Polyolefin Elastomer is an ethylene-octene copolymer that offers excellent performance in durable, flexible injection molded industrial and consumer goods.
ENGAGE 8402 provides high clarity in products requiring visual inspection and allows the use of hot runner molds to enhance production efficiency. In addition, its low density can help control resin and production costs, while reducing the weight of end products.
Main Characteristics:
Pellet form
Excellent flow characteristics
High clarity
Reduced part weight
Applications:
Injection molded industrial and consumer durable goods
Impact modification
Complies with:
EU, No 10/2011
U.S. FDA 177.1520(c)3.2c
U.S. FDA DMF
Consult the regulations for complete details.

General Information	
Agency Ratings	DMF Unspecified Rating EU No 10/2011 FDA 21 CFR 177.1520(c) 3.2c

Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.902	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	30	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	2	MU	ASTM D1646
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	88		
Shore D, 1 sec, Compression Molded	34		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 100% Secant [1] (Compression Molded)	6.70	MPa	ASTM D638
Tensile Strength [2] (Break, Compression Molded)	11.3	MPa	ASTM D638
Tensile Elongation [3] (Break, Compression Molded)	910	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	72.6	MPa	
2% Secant : Compression Molded	72.0	MPa	

Elastomers	Nominal Value	Unit	Test Method
Tear Strength [4]	79.1	kN/m	ASTM D624
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-36.0	°C	Internal Method
Vicat Softening Temperature	72.2	°C	ASTM D1525
Melting Temperature (DSC) [5]	96.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	80.4	°C	Internal Method
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	510 mm/min		
4.	Die C		
5.	10°C/min		

Recommended distributors for this material

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