

ENGAGE™ 8401

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 8401 Polyolefin Elastomer is an ethylene-octene copolymer that offers excellent performance in durable, flexible injection molded industrial and consumer goods.

ENGAGE 8401 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

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.885	g/cm ³	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	84		
Shore D, 1 sec, Compression Molded	26		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	4.00	MPa	ASTM D638
Tensile Strength ² (Break, Compression Molded)	8.50	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	940	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	30.7	MPa	
2% Secant : Compression Molded	30.6	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴	56.2	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-47.0	°C	Internal Method
Vicat Softening Temperature	49.0	°C	ASTM D1525
Melting Temperature (DSC) ⁵	80.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	59.0	°C	Internal Method

NOTE	
1.	510 mm/min
2.	510 mm/min
3.	510 mm/min
4.	Die C
5.	10°C/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

