

## Dow Engage® 8450 Polyolefin Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

### Material Notes:

Description: Engage® 8450 polyolefin elastomer is an ethyleneoctene copolymer that performs well in a wide range of thermoplastic elastomer applications. It has excellent compatibility with other polyolefins, allowing for efficient blending and coextrusion. Engage® 8450 provides excellent flow properties and is efficiently cross-linked by peroxide, silane, or irradiation. When cross-linked, it gives exceptional heat aging, compression set, and weather resistance properties. The product form is free-flowing pellets. Information provided by manufacturer. This former DuPont Dow Elastomers product line is now produced by Dow Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-Engage-8450-Polyolefin-Elastomer.php](http://www.lookpolymers.com/polymer_Dow-Engage-8450-Polyolefin-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in <sup>3</sup>	ASTM D792
Melt Index of Compound	3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	ASTM D2240
Hardness, Shore D	44	44	ASTM D2240
Tensile Strength, Ultimate	24.8 MPa	3600 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	6.30 MPa	914 psi	508 mm/min; ASTM D638
Elongation at Break	730 %	730 %	508 mm/min; ASTM D638
2% Secant Modulus	0.0726 GPa	10.5 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	98.0 °C	208 °F	DSC, 10°C/min; DuPont Test
Vicat Softening Point	82.0 °C	180 °F	ASTM D1525

Descriptive Properties	Value	Comments
Comonomer Content	20 wt%	Dow Method (<sup>13</sup>C NMR/FTIR)

Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China