

## Dow Engage® 8540 Polyolefin Elastomer

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

**Material Notes:**

Description: Engage® 8540 polyolefin elastomer is an ethyleneoctene copolymer that is well suited to foamed applications and offers excellent performance for profile extrusion of tubing and hoses. It has good clarity, toughness, and flexibility. Engage® 8540 also has excellent compatibility with other polyolefins, allowing for efficient blending and coextrusion. 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-8540-Polyolefin-Elastomer.php](http://www.lookpolymers.com/polymer_Dow-Engage-8540-Polyolefin-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	0.908 g/cc	0.0328 lb/in <sup>3</sup>	ASTM D792
Melt Index of Compound	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	96	96	ASTM D2240
Hardness, Shore D	49	49	ASTM D2240
Tensile Strength, Ultimate	28.9 MPa	4190 psi	508 mm/min; ASTM D638
Tensile Strength, Yield	8.30 MPa	1200 psi	508 mm/min; ASTM D638
Elongation at Break	710 %	710 %	508 mm/min; ASTM D638
2% Secant Modulus	0.104 GPa	15.1 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	103 °C	217 °F	DSC, 10°C/min; DuPont Test

Descriptive Properties	Value	Comments
Comonomer Content	17 wt%	Dow Method (<sup>13</sup>C NMR/FTIR)

## Contact Songhan Plastic Technology Co.,Ltd.

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