

## Polymer Industries Densetec HMW Sheet

Category : Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

Polymer Industries' Densetec HMW is the extruded material needed when Densetec HDPE is not enough and Polyslick UHMW™ is not necessary. Densetec HMW has higher impact strength than HDPE and is more abrasion resistant. The fact that Densetec HMW is more moisture resistant and wear resistant than standard HDPE, and is more economical than standard UHMW makes it the ideal material for wear applications and machined parts. It may also be used in applications such as snowplow linings and fertilizer spreaders. Information provided by Polymer Industries.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polymer-Industries-Densetec-HMW-Sheet.php](http://www.lookpolymers.com/polymer_Polymer-Industries-Densetec-HMW-Sheet.php)

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in <sup>3</sup>	ASTM D1505
ESCR 100% Igepal®	>= 600 hour	>= 600 hour	Condition A & B; ASTM D1693
Melt Index of Compound	10 g/10 min	10 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Yield	25.0 MPa	3630 psi	2in (50mm) per min.; ASTM D638
Elongation at Break	700 %	700 %	2in (50mm) per min.; ASTM D638
Flexural Modulus	1.20 GPa	174 ksi	ASTM D790
Tensile Impact Strength	190 kJ/m <sup>2</sup>	90.4 ft-lb/in <sup>2</sup>	Type S bar; ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	78.0 °C	172 °F	Method A; ASTM D648
Vicat Softening Point	126 °C	259 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

## Contact Songhan Plastic Technology Co.,Ltd.

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