

# G36-24-150 Polyethylene Resin

G36-24-150 is a medium density polyethylene resin designed for geomembrane sheet extrusion. This resin has excellent environmental stress crack resistance (ESCR.)

## Typical Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
Density (natural)	—	0.937 g/cc	D 4883
Melt Index <sup>2</sup>	—	0.27 g/10 min	D 1238
Melt Index <sup>3</sup>	—	22 g/10 min	D 1238
Tensile Strength			
@ Yield (2 in/min)	2,600 psi	17.5 MPa	D 638
@ Break (2 in/min)	4,000 psi	27.5 MPa	
Elongation			
@ Break (2 in/min)	>800%	>800%	D 638
Flexural Modulus <sup>4</sup>	84,000 psi	575 MPa	D 790
Notched Izod Impact Strength <sup>5</sup>	8 ft-lbf/in	0.40 kJ/m	D 256
Hardness (Shore D)	59	59	D 2240
Brittleness Temperature	<-103 °F	<-75 °C	D 746
Oxidation Induction Time			
@ 200 °C	>100 min.	>100 min.	
Environmental Stress Crack Resistance <sup>6</sup>	>3000 hrs	>3000 hrs	D 1693

<sup>1</sup> Typical properties will vary within specification limits.

<sup>2</sup> 190°C/2160 g

<sup>3</sup> 190°C/21600 g

<sup>4</sup> Tangent-Method

<sup>5</sup> Partial break

<sup>6</sup> Condition B and C

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For additional information, samples, pricing and availability, please contact:

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