

## NOVA Chemicals Novapol® HD-2100-U MDPE Extrusion Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded , MDPE

**Material Notes:**

Features: Excellent ESCR and toughness, high strength, excellent processability. Applications: pipe, water pipe, fuel gas pipe, re-lining pipe, steel pipe coating. Data provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Novapol-HD-2100-U-MDPE-Extrusion-Resin.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-HD-2100-U-MDPE-Extrusion-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in <sup>3</sup>	ASTM D792
Environmental Stress Crack Resistance	>= 5000 hour	>= 5000 hour	F0, Condition C, ASTM D1693, 100% Igepal
Melt Flow	0.14 g/10 min @Load 2.16 kg, Temperature 190 °C	0.14 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	800 %	800 %	ASTM D638
Tensile Modulus	0.800 GPa	116 ksi	Secant; ASTM D638
Flexural Modulus	0.780 GPa	113 ksi	Secant; ASTM D3350

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C @Temperature 20.0 °C	77.8 µin/in-°F @Temperature 68.0 °F	ASTM D696
Melting Point	128 °C	262 °F	ASTM D3417
Vicat Softening Point	119 °C	246 °F	ASTM D1525
Brittleness Temperature	<= -100 °C	<= -148 °F	ASTM D696

Processing Properties	Metric	English	Comments
Melt Temperature	195 - 225 °C	383 - 437 °F	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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