

NOVA Chemicals Novapol® HP-Y353-A HDPE Pipe Coating Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

Material Notes:

Good ESCR, Excellent toughness, High strength, Excellent processability, Excellent stiffness
 Applications: For profile, corrugated non-pressure pipes, For storm and sanitary sewer pipe, For culvert and conduit application
 Additives: Antioxidants and processing stabilizers
 Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-HP-Y353-A-HDPE-Pipe-Coating-Resin.php

Physical Properties	Metric	English	Comments
Density	0.9535 g/cc	0.03445 lb/in ³	ASTM D792
ESCR 10% Igepal®	>= 75 hour @Temperature 50.0 °C	>= 75 hour @Temperature 122 °F	F₀; ASTM D1693
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	27.0 MPa	3920 psi	Extension rate 2 in/min; ASTM D638
Elongation at Break	>= 900 %	>= 900 %	Extension rate 2 in/min; ASTM D638
Flexural Modulus	1.035 GPa	150.1 ksi	Secant 2% Strain; ASTM D3350
	1.24 GPa	180 ksi	Tangent; ASTM D790

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	132 °C	270 °F	ASTM D3417
Maximum Service Temperature, Air	264 °C	507 °F	ASTM D3350
Vicat Softening Point	126 °C	259 °F	ASTM D1525
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	F₀ notched specimen; ASTM D746

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	175 - 220 °C Metric	347 - 428 °F English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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