

## Ravago Manufacturing Americas Hylon® N2040MHL Nylon 6 (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Heat Stabilized

### Material Notes:

Information provided by Ravago.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ravago-Manufacturing-Americas-Hylon-N2040MHL-Nylon-6-DAM.php](http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylon-N2040MHL-Nylon-6-DAM.php)

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.1 %	1.1 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	0.125 in; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	128 MPa	18500 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	50.4 µm/m-°C	28.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	ASTM D257
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 282 °C	500 - 540 °F	
Mold Temperature	71.1 - 98.9 °C	160 - 210 °F	

<small>Drying Temperature</small> Processing Properties	73.9 °C Metric	165 °F English	Comments
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	0.18 %	0.18 %	
Back Pressure	0.138 - 0.414 MPa	20.0 - 60.0 psi	
Screw Speed	50 - 120 rpm	50 - 120 rpm	

Descriptive Properties	Value	Comments
Holding Pressure	750 to 1400 psi	
Injection Rate	Fast	

## Contact Songhan Plastic Technology Co.,Ltd.

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