



## HYLON® N1040MHL

Ravago Manufacturing Americas - Polyamide 66

Monday, November 4, 2019

### General Information

#### Product Description

Nylon 66, 40% Mineral Filled

#### General

|                        |                                 |
|------------------------|---------------------------------|
| Material Status        | • Commercial: Active            |
| Availability           | • North America                 |
| Filler / Reinforcement | • Mineral, 40% Filler by Weight |
| RoHS Compliance        | • RoHS Compliant                |
| UL File Number         | • E157012                       |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                          | Nominal Value | Unit                  | Test Method |
|---------------------------------------------------|---------------|-----------------------|-------------|
| Density                                           | 1.50          | g/cm <sup>3</sup>     | ISO 1183    |
| Molding Shrinkage - Flow (0.125 in)               | 0.70 to 1.0   | %                     | ISO 294-4   |
| Water Absorption (24 hr, 73°F)                    | 0.60          | %                     | ISO 62      |
| Mechanical                                        | Nominal Value | Unit                  | Test Method |
| Tensile Stress (Break)                            | 14100         | psi                   | ISO 527-2   |
| Tensile Strain (Break)                            | 1.5           | %                     | ISO 527-2   |
| Flexural Modulus                                  | 1.22E+6       | psi                   | ISO 178     |
| Flexural Stress                                   | 23100         | psi                   | ISO 178     |
| Impact                                            | Nominal Value | Unit                  | Test Method |
| Charpy Notched Impact Strength                    | 1.9           | ft·lb/in <sup>2</sup> | ISO 179     |
| Notched Izod Impact Strength                      | 1.9           | ft·lb/in <sup>2</sup> | ISO 180     |
| Hardness                                          | Nominal Value | Unit                  | Test Method |
| Rockwell Hardness (M-Scale)                       | 94            |                       | ISO 2039-2  |
| Thermal                                           | Nominal Value | Unit                  | Test Method |
| Heat Deflection Temperature (66 psi, Unannealed)  | 460           | °F                    | ISO 75-2/B  |
| Heat Deflection Temperature (264 psi, Unannealed) | 379           | °F                    | ISO 75-2/A  |
| Flammability                                      | Nominal Value | Unit                  | Test Method |
| Flame Rating (0.06 in)                            | HB            |                       | UL 94       |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.