



## HYLON® N2000THL

Ravago Manufacturing Americas - Polyamide 6

Monday, November 4, 2019

### General Information

#### Product Description

Nylon 6, Impact Modified

#### General

|                           |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| Material Status           | • Commercial: Active                                                                                                 |
| Availability              | • North America                                                                                                      |
| Additive                  | • Impact Modifier                                                                                                    |
| Features                  | • Impact Modified                                                                                                    |
| RoHS Compliance           | • RoHS Compliant                                                                                                     |
| Automotive Specifications | • CHRYSLER MS-DB-41<br>CPN5239 Color: 100% color match • GM GMP.PA6.005 Color: Black • GM GMP.PA6.005 Color: Natural |
| UL File Number            | • E157012                                                                                                            |

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

| Physical                                          | Nominal Value | Unit                  | Test Method |
|---------------------------------------------------|---------------|-----------------------|-------------|
| Density                                           | 1.10          | g/cm <sup>3</sup>     | ISO 1183    |
| Molding Shrinkage - Flow (0.125 in)               | 1.7 to 1.9    | %                     | ISO 294-4   |
| Water Absorption (24 hr, 73°F)                    | 1.5           | %                     | ISO 62      |
| Mechanical                                        | Nominal Value | Unit                  | Test Method |
| Tensile Stress (Break)                            | 9430          | psi                   | ISO 527-2   |
| Tensile Strain (Break)                            | 40            | %                     | ISO 527-2   |
| Flexural Modulus                                  | 325000        | psi                   | ISO 178     |
| Flexural Stress                                   | 12000         | psi                   | ISO 178     |
| Impact                                            | Nominal Value | Unit                  | Test Method |
| Charpy Notched Impact Strength                    | 5.7           | ft-lb/in <sup>2</sup> | ISO 179     |
| Notched Izod Impact Strength                      | 5.7           | ft-lb/in <sup>2</sup> | ISO 180     |
| Hardness                                          | Nominal Value | Unit                  | Test Method |
| Rockwell Hardness (R-Scale)                       | 80            |                       | ISO 2039-2  |
| Thermal                                           | Nominal Value | Unit                  | Test Method |
| Heat Deflection Temperature (66 psi, Unannealed)  | 334           | °F                    | ISO 75-2/B  |
| Heat Deflection Temperature (264 psi, Unannealed) | 145           | °F                    | ISO 75-2/A  |

#### Notes

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