



## Hylon N2000H2L2FRB0 NAT

### Polyamide 6 Prime Compound

**Product Description :** Unfilled, Halogen Free Flame Retardant , Polyamide 6 Compound

**Key Features :** HYLON N2000H2L2FRB0 NAT is UL 94 V0 and heat stabilized PA6 compound with good mechanical properties

**Process Method :** Injection moulding

**Uses :** Recommended for electric & electrical applications

**Revision Date :** 01.01.2023

|                                            | Value | Unit     | Standard       |
|--------------------------------------------|-------|----------|----------------|
| <b>Physical</b>                            |       |          |                |
| Density                                    | 1,18  | gr / cm3 | ISO 1183 1-A   |
| <b>Mechanical</b>                          |       |          |                |
| Tensile Stress at Break                    | 55    | MPa      | ISO 527-1      |
| Yield Strength                             | 65    | MPa      | ISO 527-1      |
| Elongation at Yield                        | 3     | %        | ISO 527-1      |
| Tensile Modulus                            | 3500  | MPa      | ISO 527-1      |
| Izod Impact Strength (Notched) (23°C)      | 4     | kJ/m2    | ISO 180/1A     |
| Charpy Impact Strength (Notched)           | 4,5   | kJ/m2    | ISO 179/1A     |
| Izod Impact Strength (Unnotched)           | 47    | kJ/m2    | ISO 180/1A     |
| <b>Thermal</b>                             |       |          |                |
| HDT (0.45 Mpa)                             | 175   | °C       | ISO 75B        |
| HDT (1.8 Mpa)                              | 60    | °C       | ISO 75A        |
| <b>Flammability</b>                        |       |          |                |
| Flammability (1,6 mm)                      | V0    | *        | UL 94          |
| Glow Wire Flammability Index GWFI (3 mm)   | 960   | °C       | IEC 60695-2-12 |
| Glow Wire Ignition Temperature GWIT (3 mm) | 850   | °C       | IEC 60695-2-13 |
| Glow Wire Flammability Index GWFI (1 mm)   | 960   | °C       | IEC 60695-2-12 |



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|                                            |     |    |                |
|--------------------------------------------|-----|----|----------------|
| Glow Wire Ignition Temperature GWIT (1 mm) | 850 | °C | IEC 60695-2-13 |
| Flammability ( 3,2 mm )                    | V0  | *  | UL 94          |
| Flammability (0,8 mm)                      | V0  | *  | UL 94          |
| Glow Wire Flammability Index GWFI (2 mm)   | 960 | °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature GWIT (2 mm) | 850 | °C | IEC 60695-2-13 |

#### Electrical

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|     |     |   |           |
|-----|-----|---|-----------|
| CTI | 600 | V | IEC 60112 |
|-----|-----|---|-----------|

#### Drying Condition

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|                        |     |
|------------------------|-----|
| Drying Time(hr)        | 2-4 |
| Drying Temperature(°C) | 80  |

#### Molding Condition (°C)

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|                       |         |
|-----------------------|---------|
| 1st Zone (hopper)(°C) | 220-230 |
| 2nd Zone(°C)          | 230-240 |
| 3rd Zone(°C)          | 245-255 |
| Nozzle(°C)            | 245-255 |
| Mold Temperature(°C)  | 80      |

#### Important Notice;

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The above results are obtained from the tests conducted in Ravago Petrokimya laboratories on injection molded ISO samples and cannot be used directly to determine end-use or design specification. Datasheet values represent a statistical average of product properties and they may be subject to change as new information becomes available. Customers and other users should make their own independent determination that the product is suitable for the intended use. Ravago Petrokimya accepts no responsibility for results obtained by the application of this information and disclaims all warranties that might arise in connection with this information.