

# Nypol® PA C3 K82 HL NTLA010 NS305 MSP

Polyamide 66/6 Copolymer

Petropol Industry and Trade of Polymers LTDA

## Message:

Blends of polyamide 6.6 / 6 natural, good set of mechanical properties, high tenacity and elongation, excellent impact resistance and excellent surface finish. Ideal for injection molding.

| General Information                   |                        |              |                   |             |
|---------------------------------------|------------------------|--------------|-------------------|-------------|
| Features                              | Good Impact Resistance |              |                   |             |
|                                       | Good Surface Finish    |              |                   |             |
|                                       | High Elongation        |              |                   |             |
| Appearance                            | Natural Color          |              |                   |             |
| Processing Method                     | Injection Molding      |              |                   |             |
| Resin ID (ISO 1043)                   | >PA66/6<               |              |                   |             |
| Physical                              | Dry                    | Conditioned  | Unit              | Test Method |
| Specific Gravity                      | 1.14                   | --           | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow<br>(3.20 mm) | 1.3 to 1.6             | --           | %                 | ASTM D955   |
| Water Absorption                      |                        |              |                   | ASTM D570   |
| 24 hr <sup>1</sup>                    | 8.5                    | --           | %                 |             |
| 24 hr <sup>2</sup>                    | 1.3                    | --           | %                 |             |
| Mechanical                            | Dry                    | Conditioned  | Unit              | Test Method |
| Tensile Modulus                       | 3000                   | 1100         | MPa               | ISO 527-2   |
| Tensile Stress (Break)                | 60.0 to 95.0           | 50.0 to 55.0 | MPa               | ISO 527-2   |
| Tensile Strain (Break)                | 35                     | 400          | %                 | ISO 527-2   |
| Impact                                | Dry                    | Conditioned  | Unit              | Test Method |
| Charpy Notched Impact<br>Strength     | 50.0                   | --           | J/m               | ISO 179     |
| Notched Izod Impact                   | 50                     | 1700         | J/m               | ISO 180     |
| Thermal                               | Dry                    | Conditioned  | Unit              | Test Method |
| Heat Deflection<br>Temperature        |                        |              |                   |             |
| 0.45 MPa, Unannealed                  | 190                    | --           | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                   | 68.0                   | --           | °C                | ISO 75-2/A  |
| Peak Melting Temperature              | 242                    | --           | °C                | ASTM D2117  |
| Electrical                            | Dry                    | Conditioned  | Unit              | Test Method |
| Volume Resistivity                    | 1.0E+12                | 1.0E+11      | ohms · cm         | ASTM D257   |
|                                       |                        | 32           |                   |             |
| Electric Strength                     | 26                     | 24           | kV/mm             | IEC 60243-1 |

|                            |              |             |      |             |
|----------------------------|--------------|-------------|------|-------------|
| Dissipation Factor (1 MHz) | 0.031        | --          |      | IEC 60250   |
| Flammability               | Dry          | Conditioned | Unit | Test Method |
| Flame Rating (0.700 mm)    | HB           | --          |      | UL 94       |
| Injection                  | Dry          | Unit        |      |             |
| Drying Temperature         | 80.0         |             | °C   |             |
| Drying Time                | 2.0 to 4.0   |             | hr   |             |
| Suggested Max Moisture     | < 0.20       |             | %    |             |
| Processing (Melt) Temp     | 240 to 270   |             | °C   |             |
| Mold Temperature           | 60.0 to 80.0 |             | °C   |             |
| NOTE                       |              |             |      |             |
| 1.                         | Saturation   |             |      |             |
| 2.                         | Immersion    |             |      |             |

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