

# XAREC™ N WA 7030

Syndiotactic Polystyrene + Nylon

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## Message:

XAREC™ N WA 7030 is a Syndiotactic Polystyrene + Nylon (SPS+Nylon) product filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

| General Information                                       |                                  |                   |                 |
|-----------------------------------------------------------|----------------------------------|-------------------|-----------------|
| Filler / Reinforcement                                    | Glass Fiber,30% Filler by Weight |                   |                 |
| UL File Number                                            | E48268                           |                   |                 |
| Physical                                                  | Nominal Value                    | Unit              | Test Method     |
| Density                                                   | 1.32                             | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                                         |                                  |                   | Internal Method |
| Across Flow                                               | 0.40 to 0.70                     | %                 |                 |
| Flow                                                      | 0.20 to 0.50                     | %                 |                 |
| Water Absorption <sup>1</sup> (Equilibrium, 23°C, 50% RH) | 0.20                             | %                 | ISO 62          |
| Mechanical                                                | Nominal Value                    | Unit              | Test Method     |
| Tensile Modulus                                           | 10000                            | MPa               | ISO 527-2       |
| Tensile Stress (Break)                                    | 175                              | MPa               | ISO 527-2       |
| Tensile Strain (Break)                                    | 2.6                              | %                 | ISO 527-2       |
| Flexural Modulus                                          | 9100                             | MPa               | ISO 178         |
| Flexural Stress                                           | 250                              | MPa               | ISO 178         |
| Impact                                                    | Nominal Value                    | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)                     | 11                               | kJ/m <sup>2</sup> | ISO 179         |
| Charpy Unnotched Impact Strength (23°C)                   | 68                               | kJ/m <sup>2</sup> | ISO 179         |
| Notched Izod Impact Strength (23°C)                       | 11                               | kJ/m <sup>2</sup> | ISO 180         |
| Unnotched Izod Impact Strength (23°C)                     | 57                               | kJ/m <sup>2</sup> | ISO 180         |
| Thermal                                                   | Nominal Value                    | Unit              | Test Method     |
| Heat Deflection Temperature <sup>2</sup>                  |                                  |                   |                 |
| 0.45 MPa, Unannealed                                      | 260                              | °C                | ISO 75-2/B      |
| 1.8 MPa, Unannealed                                       | 245                              | °C                | ISO 75-2/A      |
| CLTE                                                      |                                  |                   | TMA             |
| Flow : -30 to 30°C                                        | 2.4E-5                           | cm/cm/°C          |                 |
| Transverse : -30 to 30°C                                  | 4.9E-5                           | cm/cm/°C          |                 |
| RTI Elec                                                  | 50.0                             | °C                | UL 746          |
| RTI Imp                                                   | 50.0                             | °C                | UL 746          |
| RTI Str                                                   | 50.0                             | °C                | UL 746          |
| Electrical                                                | Nominal Value                    | Unit              | Test Method     |
| Volume Resistivity                                        | 6.7E+15                          | ohms · cm         | IEC 60093       |
| Dielectric Strength                                       | 18                               | kV/mm             | ASTM D149       |

|                                               |                        |           |             |
|-----------------------------------------------|------------------------|-----------|-------------|
| Dielectric Constant (1 MHz)                   | 3.20                   | IEC 60250 |             |
| Dissipation Factor (1 MHz)                    | 0.069                  | IEC 60250 |             |
| Arc Resistance                                | PLC 5                  | ASTM D495 |             |
| Comparative Tracking Index (CTI) <sup>3</sup> | PLC 2                  | IEC 60112 |             |
| High Amp Arc Ignition (HAI)                   |                        | UL 746    |             |
| 1.50 mm                                       | PLC 0                  |           |             |
| 3.00 mm                                       | PLC 0                  |           |             |
| Hot-wire Ignition (HWI)                       |                        | UL 746    |             |
| 1.50 mm                                       | PLC 4                  |           |             |
| 3.00 mm                                       | PLC 4                  |           |             |
| Flammability                                  | Nominal Value          | Unit      | Test Method |
| Flame Rating (> 1.50 mm)                      | HB                     |           | UL 94       |
| Injection                                     | Nominal Value          | Unit      |             |
| Drying Temperature - Desiccant Dryer          | 80.0                   | °C        |             |
| Drying Time - Desiccant Dryer                 | 1.0 to 3.0             | hr        |             |
| Processing (Melt) Temp                        | 280 to 310             | °C        |             |
| Mold Temperature                              | 50.0 to 80.0           | °C        |             |
| NOTE                                          |                        |           |             |
| 1.                                            | 24h                    |           |             |
| 2.                                            | Mold temperature: 80°C |           |             |
| 3.                                            | Solution A             |           |             |

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