

## Technical Data Sheet

### Polyflam 14N6002NCBLK



Polypropylene Copolymer

#### Product Description

Matrixx 14N6002N is a Medium Impact Flame Retardant Polypropylene Copolymer

|                   |                   |
|-------------------|-------------------|
| Processing Method | Injection Molding |
| Forms             | Pellets           |
| Appearance        | Colors Available  |
| Additive          | Flame Retardant   |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 20            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1             | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield                              | 24.1          | MPa               | ASTM D638   |
| Flexural Modulus, (Tangent)                            | 1100          | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Gardner Impact                                         | 19.2          | J                 | ASTM D5420  |
| Notched Izod Impact                                    | 110           | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 51.7          | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 79.4          | °C                | ASTM D648   |
| RTI Elec                                               | 110           | °C                | UL 746B     |
| <b>UL Information</b>                                  |               |                   |             |
| Flame Rating                                           |               |                   |             |
| (1.5 mm)                                               | V-0           |                   | UL 94       |
| (3.0 mm)                                               | V-0           |                   | UL 94       |
| UL File Number, (USA)                                  | E51193        |                   |             |

| Injection Parameters                  | Nominal Value | Units |
|---------------------------------------|---------------|-------|
| Drying Time                           | 2.0 to 4.0    | hr    |
| Drying Temperature, (Desiccant Dryer) | 82            | °C    |
| Nozzle Temperature                    | 188 to 227    | °C    |
| Processing (Melt) Temp                | 188 to 227    | °C    |
| Front Temperature                     | 188 to 216    | °C    |
| Middle Temperature                    | 188 to 216    | °C    |
| Rear Temperature                      | 182 to 199    | °C    |
| Injection Rate                        | Moderate      |       |
| Back Pressure                         | 0.00 to 0.689 | MPa   |
| Mold Temperature                      | 27 to 60      | °C    |