

## Technical Data Sheet

### Polyflam 55N5006NCBLK

Polycarbonate

#### Product Description

Polyflam 55N5006NCBLK is a Polycarbonate material.

Forms

Pellets

Additive

Flame Retardant

| Typical Properties                                     | Nominal Value  | Units             | Test Method |
|--------------------------------------------------------|----------------|-------------------|-------------|
| <b>Physical</b>                                        |                |                   |             |
| Melt Flow Rate, (300 °C/1.2 kg)                        | 12             | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.23           | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |                |                   |             |
| Tensile Strength at Yield                              | 60.7           | MPa               | ASTM D638   |
| Flexural Modulus, (Tangent)                            | 2240           | MPa               | ASTM D790   |
| <b>Impact</b>                                          |                |                   |             |
| Gardner Impact                                         | >36.2          | J                 | ASTM D5420  |
| Notched Izod Impact                                    | 690            | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |                |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 127            | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 129            | °C                | ASTM D648   |
| RTI Str                                                | 115            | °C                | UL 746B     |
| <b>UL Information</b>                                  |                |                   |             |
| Flame Rating                                           |                |                   |             |
| (1.5 mm)                                               | V-0            |                   | UL 94       |
| (3.0 mm)                                               | 5V             |                   | UL 94       |
| (2.5 mm)                                               | 5VA            |                   | UL 94       |
| <b>Injection Parameters</b>                            |                |                   |             |
|                                                        | Nominal Value  | Units             |             |
| Drying Time                                            | 4              | hr                |             |
| Drying Temperature                                     | 121            | °C                |             |
| Screw Speed                                            | 40 to 75       | rpm               |             |
| Processing (Melt) Temp                                 | 282 to 299     | °C                |             |
| Front Temperature                                      | 249 to 299     | °C                |             |
| Middle Temperature                                     | 249 to 299     | °C                |             |
| Rear Temperature                                       | 249 to 299     | °C                |             |
| Injection Rate                                         | Slow-Moderate  |                   |             |
| Back Pressure                                          | 0.345 to 0.689 | MPa               |             |
| Mold Temperature                                       | 71 to 104      | °C                |             |
| Cushion                                                | 6.35 to 12.7   | mm                |             |