

## Technical Data Sheet

### Polyflam 15A4201DT3070WHI



Polypropylene, Unspecified (PP, Unspecified)

#### Product Description

Polyflam 15A4201DT3070WHI is a Polypropylene, Unspecified Talc, 20% filled material.

|                      |                  |
|----------------------|------------------|
| Forms                | Pellets          |
| Appearance           | Colors Available |
| Additive             | Flame Retardant  |
| Filler/Reinforcement | Talc, 20%        |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 8.0           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.37          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield                              | 20.7          | MPa               | ASTM D638   |
| Flexural Modulus, (Tangent)                            | 2410          | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Gardner Impact                                         | 7.91          | J                 | ASTM D5420  |
| Notched Izod Impact                                    | 53            | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 68.3          | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 116           | °C                | ASTM D648   |
| RTI Str                                                | 105           | °C                | UL 746B     |
| <b>UL Information</b>                                  |               |                   |             |
| Flame Rating                                           |               |                   |             |
| (1.5 mm)                                               | V-0           |                   | UL 94       |
| (3.0 mm)                                               | 5VA           |                   | UL 94       |

| Injection Parameters                  | Nominal Value | Units |
|---------------------------------------|---------------|-------|
| Drying Time                           | 2.0 to 4.0    | hr    |
| Drying Temperature, (Desiccant Dryer) | 82            | °C    |
| Nozzle Temperature                    | 182 to 227    | °C    |
| Screw Speed                           | 20 to 60      | rpm   |
| Front Temperature                     | 182 to 227    | °C    |
| Middle Temperature                    | 182 to 204    | °C    |
| Rear Temperature                      | 182 to 204    | °C    |
| Injection Rate                        | Slow-Moderate |       |
| Back Pressure                         | <0.689        | MPa   |
| Mold Temperature                      | 32 to 66      | °C    |