

## DuPont Performance Polymers Zytel® PLUS PLSFR95G15DH2 BK269 Nylon (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Zytel® PLSFR95G15DH2 BK269 is 15% glass reinforced, flame retardant black PA using SHIELD Technology, only from DuPont, exceptional resistance in hot air & hot engine oil. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-PLUS-PLSFR95G15DH2-BK269-Nylon-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-PLUS-PLSFR95G15DH2-BK269-Nylon-nbspUnverified-Data.php)

| Physical Properties               | Metric             | English                   | Comments       |
|-----------------------------------|--------------------|---------------------------|----------------|
| Density                           | 1.48 g/cc          | 0.0535 lb/in <sup>3</sup> | DAM; ISO 1183  |
| Linear Mold Shrinkage, Flow       | 0.0040 cm/cm       | 0.0040 in/in              | DAM; ISO 294-4 |
|                                   | @Thickness 2.00 mm | @Thickness 0.0787 in      |                |
| Linear Mold Shrinkage, Transverse | 0.0070 cm/cm       | 0.0070 in/in              | DAM; ISO 294-4 |
|                                   | @Thickness 2.00 mm | @Thickness 0.0787 in      |                |

| Mechanical Properties     | Metric                  | English                    | Comments         |
|---------------------------|-------------------------|----------------------------|------------------|
| Tensile Strength at Break | 138 MPa                 | 20000 psi                  | DAM; ISO 527     |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |                  |
| Elongation at Break       | 2.6 %                   | 2.6 %                      | DAM; ISO 527     |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |                  |
| Tensile Modulus           | 7.35 GPa                | 1070 ksi                   | DAM; ISO 527     |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |                  |
| Flexural Strength         | 197 MPa                 | 28600 psi                  | DAM; ISO 178     |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |                  |
| Flexural Modulus          | 6.50 GPa                | 943 ksi                    | DAM; ISO 178     |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |                  |
| Charpy Impact Unnotched   | 3.60 J/cm <sup>2</sup>  | 17.1 ft-lb/in <sup>2</sup> | DAM; ISO 179/1eU |
|                           | @Temperature -30.0 °C   | @Temperature -22.0 °F      |                  |
|                           | 3.90 J/cm <sup>2</sup>  | 18.6 ft-lb/in <sup>2</sup> | DAM; ISO 179/1eU |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |                  |
| Charpy Impact, Notched    | 0.620 J/cm <sup>2</sup> | 2.95 ft-lb/in <sup>2</sup> | DAM; ISO 179/1eA |

| Mechanical Properties | @Temperature -30.0 °C<br>Metric | @Temperature -22.0 °F<br>English | Comments         |
|-----------------------|---------------------------------|----------------------------------|------------------|
|                       | 0.640 J/cm <sup>2</sup>         | 3.05 ft-lb/in <sup>2</sup>       | DAM; ISO 179/1eA |
|                       | @Temperature 23.0 °C            | @Temperature 73.4 °F             |                  |

| Thermal Properties                          | Metric              | English              | Comments                      |
|---------------------------------------------|---------------------|----------------------|-------------------------------|
| Melting Point                               | 260 °C              | 500 °F               | 10°C/min; DAM; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 258 °C              | 496 °F               | DAM; ISO 75-1/-2              |
| Deflection Temperature at 1.8 MPa (264 psi) | 237 °C              | 459 °F               | DAM; ISO 75-1/-2              |
| Flammability, UL94                          | V-0                 | V-0                  | DAM; IEC 60695-11-10          |
|                                             | @Thickness 0.810 mm | @Thickness 0.0319 in |                               |

| Processing Properties | Metric           | English          | Comments     |
|-----------------------|------------------|------------------|--------------|
| Melt Temperature      | 285 °C           | 545 °F           | DAM; Optimum |
|                       | 275 - 295 °C     | 527 - 563 °F     | DAM          |
| Mold Temperature      | 70.0 - 120 °C    | 158 - 248 °F     | DAM          |
|                       | 100 °C           | 212 °F           | DAM; optimum |
| Drying Temperature    | 80.0 °C          | 176 °F           | DAM          |
| Dry Time              | 2.00 - 4.00 hour | 2.00 - 4.00 hour | DAM          |
| Moisture Content      | <= 0.20 %        | <= 0.20 %        | DAM          |

| Descriptive Properties | Value                    | Comments       |
|------------------------|--------------------------|----------------|
| Appearance             | Black Color              | DAM            |
| Forms                  | Pellets                  | DAM            |
| Generic                | Nylon                    | DAM            |
| Material Status        | Preliminary Data         | DAM            |
| Part Marking Code      | >PA-GF15FR(17)<          | ISO 11469; DAM |
| Processing Method      | Injection Molding        | DAM            |
| Product Category       | Flame Retardant Resins   | DAM            |
|                        | Glass Reinforced Resins  | DAM            |
|                        | SHIELD Technology Resins | DAM            |

| Descriptive Properties<br><small>Region Available - Global</small> | Value<br><small>Yes</small> | Comments<br><small>DAM</small> |
|--------------------------------------------------------------------|-----------------------------|--------------------------------|
| Resin Identification                                               | PA-GF15FR(17)               | ISO 1043; DAM                  |
| RoHS Compliance                                                    | Contact Manufacturer        | DAM                            |

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