

## DuPont Performance Polymers Delrin® 570 NC000 Acetal (POM) (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Glass Fiber Reinforced

### Material Notes:

20% Glass Filled Medium Viscosity Acetal Homopolymer Delrin 570 NC000 is a medium viscosity acetal homopolymer containing 20% glass fiber filler for injection molding. Delrin 570 has very high stiffness low warpage and good creep resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Delrin-570-NC000-Acetal-POM-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-570-NC000-Acetal-POM-nbspUnverified-Data.php)

| Physical Properties               | Metric   | English  | Comments       |
|-----------------------------------|--|--|----------------|
| Density                           | 1.56 g/cc  | 0.0564 lb/in <sup>3</sup>                                | ISO 1183       |
| Water Absorption                  | 0.80 %<br>@Thickness 2.00 mm                             | 0.80 %<br>@Thickness 0.0787 in                           | Sim. to ISO 62 |
| Moisture Absorption               | 0.100 %<br>@Thickness 2.00 mm                            | 0.100 %<br>@Thickness 0.0787 in                          | Sim. to ISO 62 |
| Viscosity                         | 96000 cP<br>@Shear Rate 5000 1/s,<br>Temperature 230 °C  | 96000 cP<br>@Shear Rate 5000 1/s,<br>Temperature 446 °F  | ISO 11403-1 -2 |
|                                   | 102000 cP<br>@Shear Rate 5000 1/s,<br>Temperature 215 °C | 102000 cP<br>@Shear Rate 5000 1/s,<br>Temperature 419 °F | ISO 11403-1 -2 |
|                                   | 108000 cP<br>@Shear Rate 5000 1/s,<br>Temperature 200 °C | 108000 cP<br>@Shear Rate 5000 1/s,<br>Temperature 392 °F | ISO 11403-1 -2 |
|                                   | 345000 cP<br>@Shear Rate 500 1/s,<br>Temperature 230 °C  | 345000 cP<br>@Shear Rate 500 1/s,<br>Temperature 446 °F  | ISO 11403-1 -2 |
|                                   | 384000 cP<br>@Shear Rate 500 1/s,<br>Temperature 215 °C  | 384000 cP<br>@Shear Rate 500 1/s,<br>Temperature 419 °F  | ISO 11403-1 -2 |
|                                   | 428000 cP<br>@Shear Rate 500 1/s,<br>Temperature 200 °C  | 428000 cP<br>@Shear Rate 500 1/s,<br>Temperature 392 °F  | ISO 11403-1 -2 |
|                                   | Linear Mold Shrinkage, Flow                              | 0.018 cm/cm  | 0.018 in/in    |
| Linear Mold Shrinkage, Transverse | 0.012 cm/cm  | 0.012 in/in  | ISO 294-4 2577 |

| Physical Properties | Metric                               | English                              | Comments                         |
|---------------------|--------------------------------------|--------------------------------------|----------------------------------|
| Melt Flow           | @Load 2.16 kg,<br>Temperature 190 °C | @Load 4.76 lb,<br>Temperature 374 °F | cm <sup>3</sup> /10min; ISO 1133 |

| Mechanical Properties      | Metric   | English   | Comments     |
|----------------------------|--|---|--------------|
| Tensile Strength at Break  | 53.0 MPa   | 7690 psi  | ISO 527-1/-2 |
| Elongation at Break        | 12 %   | 12 %  | ISO 527-1/-2 |
| Tensile Modulus            | 4.90 GPa   | 711 ksi   | ISO 527-1/-2 |
| Flexural Modulus           | 4.60 GPa   | 667 ksi   | ISO 178      |
| Izod Impact, Notched (ISO) | 6.00 kJ/m <sup>2</sup>                           | 2.86 ft-lb/in <sup>2</sup>                          | ISO 180/1A   |
| Charpy Impact Unnotched    | 5.40 J/cm <sup>2</sup>                           | 25.7 ft-lb/in <sup>2</sup>                          | ISO 179/1eU  |
|                            | 5.00 J/cm <sup>2</sup><br>@Temperature -30.0 °C  | 23.8 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | ISO 179/1eU  |
| Charpy Impact, Notched     | 0.350 J/cm <sup>2</sup>                          | 1.67 ft-lb/in <sup>2</sup>                          | ISO 179/1eA  |
|                            | 0.300 J/cm <sup>2</sup><br>@Temperature -30.0 °C | 1.43 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | ISO 179/1eA  |

| Thermal Properties                          | Metric                          | English                            | Comments                 |
|---|---------------------------------|------------------------------------|--------------------------|
| CTE, linear, Parallel to Flow               | 60.0 µm/m-°C                    | 33.3 µin/in-°F                     | ISO 11359-1/-2           |
| CTE, linear, Transverse to Flow             | 85.0 µm/m-°C                    | 47.2 µin/in-°F                     | ISO 11359-1/-2           |
| Melting Point                               | 178 °C                          | 352 °F                             | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 165 °C                          | 329 °F                             | ISO 75-1/-2              |
| Deflection Temperature at 1.8 MPa (264 psi) | 125 °C                          | 257 °F                             | ISO 75-1/-2              |
| Vicat Softening Point                       | 160 °C                          | 320 °F                             | 50°C/h 50N; ISO 306      |
| Flammability, UL94                          | HB<br>@Thickness 1.50 mm        | HB<br>@Thickness 0.0591 in         | IEC 60695-11-10          |
| Flame Spread                                | 53 mm/min<br>@Thickness 1.00 mm | 2.1 in/min<br>@Thickness 0.0394 in | ISO 3795 (FMVSS 302)     |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Volume Resistivity<br>Electrical Properties | 1.00e+15 ohm-cm<br>Metric | 1.00e+15 ohm-cm<br>English | IEC 60093<br>Comments |
|---|---------------------------|----------------------------|-----------------------|
| Surface Resistance                          | >= 1.00e+15 ohm           | >= 1.00e+15 ohm            | IEC 60093             |
| Dielectric Constant                         | 3.9                       | 3.9                        | IEC 60250             |
|   | @Frequency 100 Hz         | @Frequency 100 Hz          |                       |
|   | 3.9                       | 3.9                        | IEC 60250             |
|   | @Frequency 1.00e+6 Hz     | @Frequency 1.00e+6 Hz      |                       |
| Comparative Tracking Index                  | 600 V                     | 600 V                      | IEC 60112             |

| Descriptive Properties | Value                     | Comments  |
|------------------------|---------------------------|-----------|
| Additives              | Release agent             |           |
| Delivery Form          | Pellets                   |           |
| Part Marking Code      | >POM-GF20<                | ISO 11469 |
| Processing             | Injection Moulding        |           |
| Regional Availability  | Asia Pacific              |           |
|                        | Europe                    |           |
|                        | Global                    |           |
|                        | Near East/Africa          |           |
|                        | North America             |           |
|                        | South and Central America |           |
| Resin Identification   | POM-GF20                  | ISO 1043  |
| UL recognition         | UL                        |           |

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