

## DuPont Performance Polymers Crastin® S610SF NC010 PBT (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

Crastin® S610SF is an unreinforced, low viscosity polybutylene terephthalate for injection molding. It has high flow characteristics and is specifically suitable for super fast production. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Crastin-S610SF-NC010-PBT-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-S610SF-NC010-PBT-nbspUnverified-Data.php)

| Physical Properties               | Metric  | English   | Comments                          |
|-----------------------------------|---|---|-----------------------------------|
| Density                           | 1.31 g/cc   | 0.0473 lb/in <sup>3</sup>                           | ISO 1183                          |
| Linear Mold Shrinkage, Flow       | 0.017 cm/cm   | 0.017 in/in   | ISO 294-4                         |
| Linear Mold Shrinkage, Transverse | 0.016 cm/cm   | 0.016 in/in   | ISO 294-4                         |
| Melt Index of Compound            | 44 g/10 min<br>@Load 2.16 kg,<br>Temperature 250 °C | 44 g/10 min<br>@Load 4.76 lb,<br>Temperature 482 °F | cm <sup>3</sup> /10 min; ISO 1133 |

| Mechanical Properties   | Metric  | English  | Comments         |
|-------------------------|---|--|------------------|
| Tensile Strength, Yield | 56.0 MPa<br>@Temperature 23.0 °C                | 8120 psi<br>@Temperature 73.4 °F                   | ISO 527          |
| Elongation at Break     | 40 %<br>@Temperature 23.0 °C                    | 40 %<br>@Temperature 73.4 °F                       | nominal; ISO 527 |
| Elongation at Yield     | 4.0 %<br>@Temperature 23.0 °C                   | 4.0 %<br>@Temperature 73.4 °F                      | ISO 527          |
| Tensile Modulus         | 2.50 GPa<br>@Temperature 23.0 °C                | 363 ksi<br>@Temperature 73.4 °F                    | ISO 527          |
| Charpy Impact Unnotched | NB<br>@Temperature 23.0 °C                      | NB<br>@Temperature 73.4 °F                         | ISO 179/1eU      |
| Charpy Impact, Notched  | 0.400 J/cm <sup>2</sup><br>@Temperature 23.0 °C | 1.90 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F | ISO 179/1eA      |

| Thermal Properties                | Metric  | English | Comments                 |
|-----------------------------------|---------|---------|--------------------------|
| Melting Point                     | 223 °C  | 433 °F  | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 1.8 MPa | 54.0 °C | 129 °F  |                          |

| (264 psi)<br>Thermal Properties | Metric           | English          | ISO 75-1/-2<br>Comments    |
|---------------------------------|------------------|------------------|----------------------------|
| <b>Processing Properties</b>    | <b>Metric</b>    | <b>English</b>   | <b>Comments</b>            |
| Melt Temperature                | 240 °C           | 464 °F           | Optimum; Injection Molding |
|                                 | 235 - 260 °C     | 455 - 500 °F     | Injection Molding          |
| Mold Temperature                | 80.0 °C          | 176 °F           | optimum; Injection Molding |
|                                 | 30.0 - 130 °C    | 86.0 - 266 °F    | Injection Molding          |
| Drying Temperature              | 110 - 130 °C     | 230 - 266 °F     | Injection Molding          |
| Dry Time                        | 2.00 - 4.00 hour | 2.00 - 4.00 hour | Injection Molding          |
| Moisture Content                | <= 0.040 %       | <= 0.040 %       | Injection Molding          |

| Descriptive Properties | Value                       | Comments          |
|------------------------|-----------------------------|-------------------|
| Appearance             | Natural Color               |                   |
| Drying Recommended     | Yes                         | Injection Molding |
| Features               | Chemical Resistance, Good   |                   |
|                        | Dimensional Stability, Good |                   |
|                        | Flow, High                  |                   |
|                        | Moisture Absorption, Low    |                   |
|                        | Molding Cycle, Fast         |                   |
|                        | Processability, Good        |                   |
|                        | Viscosity, Low              |                   |
| Forms                  | Pellets                     |                   |
| Generic                | PBT                         |                   |
| Material Status        | Preliminary Data            |                   |
| Part Marking Code      | >PBT<                       | ISO 11469         |
| Processing Method      | Injection Molding           |                   |
| Product Category       | Fast Cycle Resins           |                   |
|                        | Fast Cycle Resins           |                   |
|                        | Unreinforced Resins         |                   |

| Region Available - Global<br>Descriptive Properties | Yes<br>Value         | Comments |
|---|----------------------|----------|
| Resin Identification                                | PBT                  | ISO 1043 |
| RoHS Compliance                                     | Contact Manufacturer |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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