# DuPont Performance Polymers Crastin® LW9030 NC010 PBT+ASA (Unverified Data**)

**Category :** Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + ASA Blend, Glass Fiber Reinforced

**Material Notes:**

30% Glass Reinforced Polybutylene Terephthalate Blend with Low Warpage Characteristics Crastin LW9030 NC010 is a 30% glass fiber reinforced polybutylene terephthalate blend for injection molding. It has improved surface aesthetics excellent dimensionalInformation provided by DuPont Performance Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-LW9030-NC010-PBTASA-nbspUnverified-Data.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 1.28 g/cc | 0.0462 lb/in³ | |
| | 1.44 g/cc | 0.0520 lb/in³ | ISO 1183 |
| Water Absorption | 0.72 %<br>@Thickness 2.00 mm | 0.72 %<br>@Thickness 0.0787 in | Sim. to ISO 62 |
| Moisture Absorption | 0.240 %<br>@Thickness 2.00 mm | 0.240 %<br>@Thickness 0.0787 in | Sim. to ISO 62 |
| Viscosity | 67000 cP<br>@Shear Rate 5000 1/s, Temperature 260 °C | 67000 cP<br>@Shear Rate 5000 1/s, Temperature 500 °F | ISO 11403-1 -2 |
| | 77000 cP<br>@Shear Rate 5000 1/s, Temperature 250 °C | 77000 cP<br>@Shear Rate 5000 1/s, Temperature 482 °F | ISO 11403-1 -2 |
| | 89000 cP<br>@Shear Rate 5000 1/s, Temperature 240 °C | 89000 cP<br>@Shear Rate 5000 1/s, Temperature 464 °F | ISO 11403-1 -2 |
| | 278000 cP<br>@Shear Rate 500 1/s, Temperature 260 °C | 278000 cP<br>@Shear Rate 500 1/s, Temperature 500 °F | ISO 11403-1 -2 |
| | 325000 cP<br>@Shear Rate 500 1/s, Temperature 250 °C | 325000 cP<br>@Shear Rate 500 1/s, Temperature 482 °F | ISO 11403-1 -2 |
| | 383000 cP<br>@Shear Rate 500 1/s, Temperature 240 °C | 383000 cP<br>@Shear Rate 500 1/s, Temperature 464 °F | ISO 11403-1 -2 |
| Linear Mold Shrinkage, Flow | 0.0015 cm/cm | 0.0015 in/in | 48h at 80°C; ISO 294-4 |

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Linear Mold Shrinkage, Transverse | 0.0020 cm/cm | 0.0020 in/in | 48h at 80°C; ISO 294-4 |
| | 0.0070 cm/cm | 0.0070 in/in | ISO 294-4 2577 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Tensile Strength at Break | 130 MPa | 18900 psi | ISO 527-1/-2 |
| Tensile Stress | 3.26 MPa<br>@Strain 0.250 %, Temperature 160 °C | 473 psi<br>@Strain 0.250 %, Temperature 320 °F | ISO 11403-1 -2 |
| | 13.4 MPa<br>@Strain 1.50 %, Temperature 160 °C | 1940 psi<br>@Strain 1.50 %, Temperature 320 °F | ISO 11403-1 -2 |
| | 17.0 MPa<br>@Strain 3.00 %, Temperature 160 °C | 2470 psi<br>@Strain 3.00 %, Temperature 320 °F | ISO 11403-1 -2 |
| | 21.8 MPa<br>@Strain 0.250 %, Temperature 40.0 °C | 3160 psi<br>@Strain 0.250 %, Temperature 104 °F | ISO 11403-1 -2 |
| | 23.9 MPa<br>@Strain 0.250 %, Temperature 23.0 °C | 3470 psi<br>@Strain 0.250 %, Temperature 73.4 °F | ISO 11403-1 -2 |
| | 25.6 MPa<br>@Strain 0.250 %, Temperature 0.000 °C | 3710 psi<br>@Strain 0.250 %, Temperature 32.0 °F | ISO 11403-1 -2 |
| | 25.9 MPa<br>@Strain 0.250 %, Temperature -20.0 °C | 3760 psi<br>@Strain 0.250 %, Temperature -4.00 °F | ISO 11403-1 -2 |
| | 27.3 MPa<br>@Strain 0.250 %, Temperature -40.0 °C | 3960 psi<br>@Strain 0.250 %, Temperature -40.0 °F | ISO 11403-1 -2 |
| | 95.9 MPa<br>@Strain 1.50 %, Temperature 40.0 °C | 13900 psi<br>@Strain 1.50 %, Temperature 104 °F | ISO 11403-1 -2 |
| | 111 MPa<br>@Strain 1.50 %, Temperature 23.0 °C | 16100 psi<br>@Strain 1.50 %, Temperature 73.4 °F | ISO 11403-1 -2 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| | 125 MPa<br>@Strain 1.50 %,<br>Temperature 0.000 °C | 18100 psi<br>@Strain 1.50 %,<br>Temperature 32.0 °F | ISO 11403-1 -2 |
| | 132 MPa<br>@Strain 1.50 %,<br>Temperature -20.0 °C | 19100 psi<br>@Strain 1.50 %,<br>Temperature -4.00 °F | ISO 11403-1 -2 |
| | 138 MPa<br>@Strain 1.50 %,<br>Temperature -40.0 °C | 20000 psi<br>@Strain 1.50 %,<br>Temperature -40.0 °F | ISO 11403-1 -2 |
| | 10.0 MPa<br>@Strain 0.105 %,<br>Time 3600 sec | 1450 psi<br>@Strain 0.105 %,<br>Time 1.00 hour | isochronous; ISO 11403-1 -2 |
| | 10.0 MPa<br>@Strain 0.110 %,<br>Time 36000 sec | 1450 psi<br>@Strain 0.110 %,<br>Time 10.0 hour | isochronous; ISO 11403-1 -2 |
| | 10.0 MPa<br>@Strain 0.120 %,<br>Time 360000 sec | 1450 psi<br>@Strain 0.120 %,<br>Time 100 hour | isochronous; ISO 11403-1 -2 |
| | 20.0 MPa<br>@Strain 0.274 %,<br>Time 3.60e+6 sec | 2900 psi<br>@Strain 0.274 %,<br>Time 1000 hour | isochronous; ISO 11403-1 -2 |
| | 50.0 MPa<br>@Strain 0.778 %,<br>Time 3.60e+6 sec | 7250 psi<br>@Strain 0.778 %,<br>Time 1000 hour | isochronous; ISO 11403-1 -2 |
| | 50.0 MPa<br>@Strain 0.684 %,<br>Time 360000 sec | 7250 psi<br>@Strain 0.684 %,<br>Time 100 hour | isochronous; ISO 11403-1 -2 |
| | 60.0 MPa<br>@Strain 0.715 %,<br>Time 3600 sec | 8700 psi<br>@Strain 0.715 %,<br>Time 1.00 hour | isochronous; ISO 11403-1 -2 |
| | 60.0 MPa<br>@Strain 0.757 %,<br>Time 36000 sec | 8700 psi<br>@Strain 0.757 %,<br>Time 10.0 hour | isochronous; ISO 11403-1 -2 |
| Elongation at Break | 2.5 % | 2.5 % | ISO 527-1/-2 |
| Tensile Modulus | 9.50 GPa | 1380 ksi | ISO 527-1/-2 |
| | 1.441 GPa<br>@Temperature 160 °C | 209.0 ksi<br>@Temperature 320 °F | Dynamic; ISO 11403-1 -2 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| | 6.871 GPa<br>@Temperature 80.0 °C | 996.5 ksi<br>@Temperature 176 °F | Dynamic; ISO 11403-1 -2 |
| | 8.992 GPa<br>@Temperature 30.0 °C | 1304 ksi<br>@Temperature 86.0 °F | Dynamic; ISO 11403-1 -2 |
| | 9.489 GPa<br>@Temperature -20.0 °C | 1376 ksi<br>@Temperature -4.00 °F | Dynamic; ISO 11403-1 -2 |
| | 9.77 GPa<br>@Temperature -50.0 °C | 1420 ksi<br>@Temperature -58.0 °F | Dynamic; ISO 11403-1 -2 |
| Flexural Strength | 190 MPa | 27600 psi | ISO 178 |
| Flexural Modulus | 8.50 GPa | 1230 ksi | ISO 178 |
| Secant Modulus | 2.85 GPa<br>@Strain 1.50 %, Temperature 100 °C | 413 ksi<br>@Strain 1.50 %, Temperature 212 °F | ISO 11403-1 -2 |
| | 4.03 GPa<br>@Strain 1.50 %, Temperature 80.0 °C | 584 ksi<br>@Strain 1.50 %, Temperature 176 °F | ISO 11403-1 -2 |
| | 4.40 GPa<br>@Strain 0.250 %, Temperature 100 °C | 638 ksi<br>@Strain 0.250 %, Temperature 212 °F | ISO 11403-1 -2 |
| | 6.04 GPa<br>@Strain 0.250 %, Temperature 80.0 °C | 876 ksi<br>@Strain 0.250 %, Temperature 176 °F | ISO 11403-1 -2 |
| | 6.39 GPa<br>@Strain 1.50 %, Temperature 40.0 °C | 927 ksi<br>@Strain 1.50 %, Temperature 104 °F | ISO 11403-1 -2 |
| | 7.40 GPa<br>@Strain 1.50 %, Temperature 23.0 °C | 1070 ksi<br>@Strain 1.50 %, Temperature 73.4 °F | ISO 11403-1 -2 |
| | 8.33 GPa<br>@Strain 1.50 %, Temperature 0.000 °C | 1210 ksi<br>@Strain 1.50 %, Temperature 32.0 °F | ISO 11403-1 -2 |
| | 8.72 GPa<br>@Strain 0.250 %, Temperature 40.0 °C | 1260 ksi<br>@Strain 0.250 %, Temperature 104 °F | ISO 11403-1 -2 |
| | 8.80 GPa | 1280 ksi | |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| | @Strain 1.50 %, Temperature -20.0 °C | @Strain 1.50 %, Temperature -4.00 °F | ISO 11403-1 -2 |
| | 9.20 GPa<br>@Strain 1.50 %, Temperature -40.0 °C | 1330 ksi<br>@Strain 1.50 %, Temperature -40.0 °F | ISO 11403-1 -2 |
| | 9.56 GPa<br>@Strain 0.250 %, Temperature 23.0 °C | 1390 ksi<br>@Strain 0.250 %, Temperature 73.4 °F | ISO 11403-1 -2 |
| | 10.24 GPa<br>@Strain 0.250 %, Temperature 0.000 °C | 1485 ksi<br>@Strain 0.250 %, Temperature 32.0 °F | ISO 11403-1 -2 |
| | 10.36 GPa<br>@Strain 0.250 %, Temperature -20.0 °C | 1503 ksi<br>@Strain 0.250 %, Temperature -4.00 °F | ISO 11403-1 -2 |
| | 10.92 GPa<br>@Strain 0.250 %, Temperature -40.0 °C | 1584 ksi<br>@Strain 0.250 %, Temperature -40.0 °F | ISO 11403-1 -2 |
| Izod Impact, Notched (ISO) | 8.00 kJ/m² | 3.81 ft-lb/in² | ISO 180/1A |
| | 8.00 kJ/m²<br>@Temperature -30.0 °C | 3.81 ft-lb/in²<br>@Temperature -22.0 °F | ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 50.0 kJ/m² | 23.8 ft-lb/in² | ISO 180/1U |
| | 50.0 kJ/m²<br>@Temperature -30.0 °C | 23.8 ft-lb/in²<br>@Temperature -22.0 °F | ISO 180/1U |
| Charpy Impact Unnotched | 6.00 J/cm² | 28.6 ft-lb/in² | ISO 179/1eU |
| | 6.50 J/cm²<br>@Temperature -30.0 °C | 30.9 ft-lb/in²<br>@Temperature -22.0 °F | ISO 179/1eU |

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