

## DuPont Performance Polymers Crastin® 6130 NC010 Polybutylene Terephthalate (PBT) (Unverified Data\*\*)

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

### Material Notes:

Unreinforced High Viscosity Polybutylene Terephthalate Developed for Extrusion and Injection Molding Crastin 6130 NC010 is an unreinforced medium high viscosity polybutylene terephthalate resin for extrusion and injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Crastin-6130-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-6130-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	
	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ISO 1183
Viscosity	102200 cP	102200 cP	
	@Shear Rate 5000 1/s, Temperature 260 °C	@Shear Rate 5000 1/s, Temperature 500 °F	ISO 11403-1 -2
	113100 cP	113100 cP	
	@Shear Rate 5000 1/s, Temperature 250 °C	@Shear Rate 5000 1/s, Temperature 482 °F	ISO 11403-1 -2
	125300 cP	125300 cP	
	@Shear Rate 5000 1/s, Temperature 240 °C	@Shear Rate 5000 1/s, Temperature 464 °F	ISO 11403-1 -2
	308900 cP	308900 cP	
	@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F	ISO 11403-1 -2
	378000 cP	378000 cP	
	@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F	ISO 11403-1 -2
436500 cP	436500 cP		
@Shear Rate 10.0 1/s, Temperature 260 °C	@Shear Rate 10.0 1/s, Temperature 500 °F	ISO 11403-1 -2	
461700 cP	461700 cP		
@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F	ISO 11403-1 -2	
582500 cP	582500 cP		
@Shear Rate 10.0 1/s,	@Shear Rate 10.0 1/s,	ISO 11403-1 -2	

Physical Properties	Temperature 250 °C Metric	Temperature 482 °F English	Comments
	794600 cP	794600 cP	
	@Shear Rate 10.0 1/s, Temperature 240 °C	@Shear Rate 10.0 1/s, Temperature 464 °F	ISO 11403-1 -2
Viscosity Test	130 cm <sup>3</sup> /g	130 cm <sup>3</sup> /g	ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294-4 2577
Melt Flow	15.4 g/10 min	15.4 g/10 min	
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Stress	0.410 MPa	59.5 psi	
	@Strain 0.170 %, Temperature 150 °C	@Strain 0.170 %, Temperature 302 °F	ISO 11403-1 -2
	0.680 MPa	98.6 psi	
	@Strain 0.170 %, Temperature 90.0 °C	@Strain 0.170 %, Temperature 194 °F	ISO 11403-1 -2
	4.10 MPa	595 psi	
	@Strain 2.28 %, Temperature 150 °C	@Strain 2.28 %, Temperature 302 °F	ISO 11403-1 -2
	6.67 MPa	967 psi	
	@Strain 4.80 %, Temperature 150 °C	@Strain 4.80 %, Temperature 302 °F	ISO 11403-1 -2
	7.25 MPa	1050 psi	
	@Strain 2.25 %, Temperature 90.0 °C	@Strain 2.25 %, Temperature 194 °F	ISO 11403-1 -2
	8.25 MPa	1200 psi	
	@Strain 7.41 %, Temperature 150 °C	@Strain 7.41 %, Temperature 302 °F	ISO 11403-1 -2
	12.07 MPa	1751 psi	
	@Strain 4.64 %, Temperature 90.0 °C	@Strain 4.64 %, Temperature 194 °F	ISO 11403-1 -2
	13.63 MPa	1977 psi	
	@Strain 0.430 %, Temperature -40.0 °C	@Strain 0.430 %, Temperature -40.0 °F	ISO 11403-1 -2
	14.34 MPa	2080 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 1.27 %, Temperature 40.0 °C	@Strain 1.27 %, Temperature 104 °F	ISO 11403-1 -2
	15.07 MPa	2186 psi	
	@Strain 7.13 %, Temperature 90.0 °C	@Strain 7.13 %, Temperature 194 °F	ISO 11403-1 -2
	16.61 MPa	2409 psi	
	@Strain 0.700 %, Temperature 23.0 °C	@Strain 0.700 %, Temperature 73.4 °F	ISO 11403-1 -2
	22.95 MPa	3329 psi	
	@Strain 0.820 %, Temperature -20.0 °C	@Strain 0.820 %, Temperature -4.00 °F	ISO 11403-1 -2
	24.96 MPa	3620 psi	
	@Strain 3.64 %, Temperature 40.0 °C	@Strain 3.64 %, Temperature 104 °F	ISO 11403-1 -2
	27.2 MPa	3950 psi	
	@Strain 1.04 %, Temperature 0.000 °C	@Strain 1.04 %, Temperature 32.0 °F	ISO 11403-1 -2
	29.39 MPa	4263 psi	
	@Strain 6.18 %, Temperature 40.0 °C	@Strain 6.18 %, Temperature 104 °F	ISO 11403-1 -2
	32.22 MPa	4673 psi	
	@Strain 8.75 %, Temperature 40.0 °C	@Strain 8.75 %, Temperature 104 °F	ISO 11403-1 -2
	45.2 MPa	6560 psi	
	@Strain 2.17 %, Temperature 23.0 °C	@Strain 2.17 %, Temperature 73.4 °F	ISO 11403-1 -2
	48.4 MPa	7020 psi	
	@Strain 1.69 %, Temperature -40.0 °C	@Strain 1.69 %, Temperature -40.0 °F	ISO 11403-1 -2
	51.39 MPa	7454 psi	
	@Strain 2.00 %, Temperature -20.0 °C	@Strain 2.00 %, Temperature -4.00 °F	ISO 11403-1 -2
	54.78 MPa	7945 psi	
	@Strain 2.40 %, Temperature 0.000 °C	@Strain 2.40 %, Temperature 32.0 °F	ISO 11403-1 -2
	65.05 MPa	9435 psi	
	@Strain 4.22 %, Temperature 0.000 °C	@Strain 4.22 %, Temperature 32.0 °F	ISO 11403-1 -2

Mechanical Properties	Metric MPa	English psi	Comments
	@Strain 3.31 %, Temperature -20.0 °C	@Strain 3.31 %, Temperature -4.00 °F	ISO 11403-1 -2
	71.25 MPa	10330 psi	
	@Strain 2.81 %, Temperature -40.0 °C	@Strain 2.81 %, Temperature -40.0 °F	ISO 11403-1 -2
	77.04 MPa	11170 psi	
	@Strain 5.18 %, Temperature -20.0 °C	@Strain 5.18 %, Temperature -4.00 °F	ISO 11403-1 -2
	87.67 MPa	12720 psi	
	@Strain 4.16 %, Temperature -40.0 °C	@Strain 4.16 %, Temperature -40.0 °F	ISO 11403-1 -2
Tensile Strength, Yield	59.0 MPa	8560 psi	ISO 527-1/-2
Elongation at Break	50 %	50 %	Nominal; ISO 527-1/-2
Elongation at Yield	8.0 %	8.0 %	ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Shear Strength	0.004365 MPa	0.6330 psi	
	@Shear Rate 10.0 1/s, Temperature 260 °C	@Shear Rate 10.0 1/s, Temperature 500 °F	ISO 11403-1 -2
	0.005825 MPa	0.8449 psi	
	@Shear Rate 10.0 1/s, Temperature 250 °C	@Shear Rate 10.0 1/s, Temperature 482 °F	ISO 11403-1 -2
	0.007946 MPa	1.153 psi	
	@Shear Rate 10.0 1/s, Temperature 240 °C	@Shear Rate 10.0 1/s, Temperature 464 °F	ISO 11403-1 -2
	0.1544 MPa	22.40 psi	
	@Shear Rate 500 1/s, Temperature 260 °C	@Shear Rate 500 1/s, Temperature 500 °F	ISO 11403-1 -2
	0.1890 MPa	27.41 psi	
	@Shear Rate 500 1/s, Temperature 250 °C	@Shear Rate 500 1/s, Temperature 482 °F	ISO 11403-1 -2
	0.2309 MPa	33.48 psi	
	@Shear Rate 500 1/s, Temperature 240 °C	@Shear Rate 500 1/s, Temperature 464 °F	ISO 11403-1 -2
	0.5109 MPa	74.10 psi	
	@Shear Rate 5000 1/s,	@Shear Rate 5000 1/s,	ISO 11403-1 -2

Mechanical Properties	Temperature 260 °C Metric	Temperature 500 °F English	Comments
	0.5653 MPa  @Shear Rate 5000 1/s, Temperature 250 °C	82.00 psi  @Shear Rate 5000 1/s, Temperature 482 °F	ISO 11403-1 -2
	0.6263 MPa  @Shear Rate 5000 1/s, Temperature 240 °C	90.83 psi  @Shear Rate 5000 1/s, Temperature 464 °F	ISO 11403-1 -2
Secant Modulus	0.43495 GPa  @Strain 7.01 %, Temperature 40.0 °C	63.085 ksi  @Strain 7.01 %, Temperature 104 °F	ISO 11403-1 -2
	0.686 GPa  @Strain 3.64 %, Temperature 40.0 °C	99.5 ksi  @Strain 3.64 %, Temperature 104 °F	ISO 11403-1 -2
	1.13 GPa  @Strain 1.27 %, Temperature 40.0 °C	164 ksi  @Strain 1.27 %, Temperature 104 °F	ISO 11403-1 -2
	1.81 GPa  @Strain 5.21 %, Temperature -40.0 °C	262 ksi  @Strain 5.21 %, Temperature -40.0 °F	ISO 11403-1 -2
	1.95 GPa  @Strain 3.80 %, Temperature -20.0 °C	282 ksi  @Strain 3.80 %, Temperature -4.00 °F	ISO 11403-1 -2
	2.08 GPa  @Strain 2.17 %, Temperature 23.0 °C	302 ksi  @Strain 2.17 %, Temperature 73.4 °F	ISO 11403-1 -2
	2.2825 GPa  @Strain 2.40 %, Temperature 0.000 °C	331.05 ksi  @Strain 2.40 %, Temperature 32.0 °F	ISO 11403-1 -2
	2.37 GPa  @Strain 0.700 %, Temperature 23.0 °C	344 ksi  @Strain 0.700 %, Temperature 73.4 °F	ISO 11403-1 -2
	2.4175 GPa  @Strain 3.20 %, Temperature -40.0 °C	350.63 ksi  @Strain 3.20 %, Temperature -40.0 °F	ISO 11403-1 -2
	2.5695 GPa  @Strain 2.00 %, Temperature -20.0 °C	372.68 ksi  @Strain 2.00 %, Temperature -4.00 °F	ISO 11403-1 -2
	2.62 GPa	379 ksi	

Mechanical Properties	Metric	English	ISO 11403-1-2 Comments
	@ Strain 1.04 %, Temperature 0.000 °C	@ Strain 1.04 %, Temperature 32.0 °F	

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