

## DuPont Performance Polymers Crastin® SK615SF NC010 Polybutylene Terephthalate (PBT) (Unverified Data\*\*)&

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

### Material Notes:

30% Glass Reinforced Low Viscosity Polybutylene Terephthalate Developed for Super Fast Production Crastin SK615SF is a 30% glass fiber reinforced low viscosity polybutylene terephthalate for injection molding. It has high flow characteristics and is spInformation provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Crastin-SK615SF-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Datal.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Crastin-SK615SF-NC010-Polybutylene-Terephthalate-PBT-nbspUnverified-Datal.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	
	1.54 g/cc	0.0556 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.35 %	0.35 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	0.150 %	0.150 %	Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ISO 527-1/-2
Tensile Stress	6.288 MPa	911.9 psi	ISO 11403-1 -2
	@Strain 0.152378 %, Temperature 140 °C	@Strain 0.152378 %, Temperature 284 °F	
	8.422 MPa	1222 psi	ISO 11403-1 -2
	@Strain 0.240189 %, Temperature 160 °C	@Strain 0.240189 %, Temperature 320 °F	
	15.15 MPa	2197 psi	ISO 11403-1 -2
	@Strain 0.386488 %, Temperature 140 °C	@Strain 0.386488 %, Temperature 284 °F	
	15.45 MPa	2240 psi	ISO 11403-1 -2
	@Strain 0.143435 %, Temperature -20.0 °C	@Strain 0.143435 %, Temperature -4.00 °F	

Mechanical Properties	15.51 MPa Metric	2249 psi English	Comments ISO 11403-1 -2
	@Strain 0.141174 %, Temperature -40.0 °C	@Strain 0.141174 %, Temperature -40.0 °F	
	<b>16.86 MPa</b>	<b>2445 psi</b>	
	@Strain 0.210062 %, Temperature 40.0 °C	@Strain 0.210062 %, Temperature 104 °F	ISO 11403-1 -2
	<b>22.62 MPa</b>	<b>3281 psi</b>	
	@Strain 0.215233 %, Temperature 23.0 °C	@Strain 0.215233 %, Temperature 73.4 °F	ISO 11403-1 -2
	<b>23.28 MPa</b>	<b>3377 psi</b>	
	@Strain 0.231655 %, Temperature 0.000 °C	@Strain 0.231655 %, Temperature 32.0 °F	ISO 11403-1 -2
	<b>24.29 MPa</b>	<b>3522 psi</b>	
	@Strain 0.690557 %, Temperature 140 °C	@Strain 0.690557 %, Temperature 284 °F	ISO 11403-1 -2
	<b>30.06 MPa</b>	<b>4360 psi</b>	
	@Strain 1.37862 %, Temperature 160 °C	@Strain 1.37862 %, Temperature 320 °F	ISO 11403-1 -2
	<b>32.585 MPa</b>	<b>4726.1 psi</b>	
	@Strain 1.0723 %, Temperature 140 °C	@Strain 1.0723 %, Temperature 284 °F	ISO 11403-1 -2
	<b>34.518 MPa</b>	<b>5006.4 psi</b>	
	@Strain 0.453157 %, Temperature 40.0 °C	@Strain 0.453157 %, Temperature 104 °F	ISO 11403-1 -2
	<b>36.42 MPa</b>	<b>5282 psi</b>	
	@Strain 2.02599 %, Temperature 160 °C	@Strain 2.02599 %, Temperature 320 °F	ISO 11403-1 -2
	<b>39.23 MPa</b>	<b>5690 psi</b>	
	@Strain 2.53541 %, Temperature 160 °C	@Strain 2.53541 %, Temperature 320 °F	ISO 11403-1 -2
	<b>41.66 MPa</b>	<b>6043 psi</b>	
	@Strain 0.412778 %, Temperature 23.0 °C	@Strain 0.412778 %, Temperature 73.4 °F	ISO 11403-1 -2
	<b>43.48 MPa</b>	<b>6307 psi</b>	
	@Strain 0.410528 %, Temperature -20.0 °C	@Strain 0.410528 %, Temperature -4.00 °F	ISO 11403-1 -2
	<b>45.36 MPa</b>	<b>6579 psi</b>	
	@Strain 0.453926 %, Temperature -20.0 °C	@Strain 0.453926 %, Temperature -4.00 °F	ISO 11403-1 -2

Mechanical Properties	Temperature 0.000 °C	Temperature 32.0 °F	Comments
	Metric	English	
	48.77 MPa	7073 psi	
	@Strain 2.68009 %, Temperature 140 °C	@Strain 2.68009 %, Temperature 284 °F	ISO 11403-1 -2
	52.96 MPa	7681 psi	
	@Strain 0.746328 %, Temperature 40.0 °C	@Strain 0.746328 %, Temperature 104 °F	ISO 11403-1 -2
	62.36 MPa	9045 psi	
	@Strain 0.591272 %, Temperature -40.0 °C	@Strain 0.591272 %, Temperature -40.0 °F	ISO 11403-1 -2
	64.57 MPa	9365 psi	
	@Strain 0.683319 %, Temperature 23.0 °C	@Strain 0.683319 %, Temperature 73.4 °F	ISO 11403-1 -2
	69.31 MPa	10050 psi	
	@Strain 0.710966 %, Temperature 0.000 °C	@Strain 0.710966 %, Temperature 32.0 °F	ISO 11403-1 -2
	71.131 MPa	10317 psi	
	@Strain 1.0997 %, Temperature 40.0 °C	@Strain 1.0997 %, Temperature 104 °F	ISO 11403-1 -2
	72.09 MPa	10460 psi	
	@Strain 0.700638 %, Temperature -20.0 °C	@Strain 0.700638 %, Temperature -4.00 °F	ISO 11403-1 -2
	87.83 MPa	12740 psi	
	@Strain 1.00996 %, Temperature 23.0 °C	@Strain 1.00996 %, Temperature 73.4 °F	ISO 11403-1 -2
	91.14 MPa	13220 psi	
	@Strain 0.87993 %, Temperature -40.0 °C	@Strain 0.87993 %, Temperature -40.0 °F	ISO 11403-1 -2
	93.89 MPa	13620 psi	
	@Strain 1.01022 %, Temperature 0.000 °C	@Strain 1.01022 %, Temperature 32.0 °F	ISO 11403-1 -2
	100.4 MPa	14560 psi	
	@Strain 1.02518 %, Temperature -20.0 °C	@Strain 1.02518 %, Temperature -4.00 °F	ISO 11403-1 -2
	108.7 MPa	15770 psi	
	@Strain 2.58789 %, Temperature 40.0 °C	@Strain 2.58789 %, Temperature 104 °F	ISO 11403-1 -2
	121.5 MPa	17620 psi	

Mechanical Properties	Metric	English	ISO 11403-1 -2 Comments
	@Strain 1.21618 %, Temperature -40.0 °C	@Strain 1.21618 %, Temperature -40.0 °F	
	174.0 MPa	25240 psi	
	@Strain 2.41732 %, Temperature -20.0 °C	@Strain 2.41732 %, Temperature -4.00 °F	ISO 11403-1 -2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527-1/-2
	2.71 GPa	393 ksi	
Secant Modulus	@Strain 2.64148 %, Temperature 80.0 °C	@Strain 2.64148 %, Temperature 176 °F	ISO 11403-1 -2
	2.79 GPa	405 ksi	
	@Strain 2.08034 %, Temperature 100 °C	@Strain 2.08034 %, Temperature 212 °F	ISO 11403-1 -2
	4.06 GPa	589 ksi	
	@Strain 1.2473 %, Temperature 80.0 °C	@Strain 1.2473 %, Temperature 176 °F	ISO 11403-1 -2
	4.46 GPa	647 ksi	
	@Strain 0.591579 %, Temperature 100 °C	@Strain 0.591579 %, Temperature 212 °F	ISO 11403-1 -2
	4.93 GPa	715 ksi	
	@Strain 0.600598 %, Temperature 80.0 °C	@Strain 0.600598 %, Temperature 176 °F	ISO 11403-1 -2
	5.02 GPa	728 ksi	
	@Strain 0.229987 %, Temperature 100 °C	@Strain 0.229987 %, Temperature 212 °F	ISO 11403-1 -2
	5.04 GPa	731 ksi	
	@Strain 1.99815 %, Temperature 40.0 °C	@Strain 1.99815 %, Temperature 104 °F	ISO 11403-1 -2
	5.46 GPa	793 ksi	
	@Strain 0.294996 %, Temperature 80.0 °C	@Strain 0.294996 %, Temperature 176 °F	ISO 11403-1 -2
	6.01 GPa	872 ksi	
	@Strain 1.36981 %, Temperature 40.0 °C	@Strain 1.36981 %, Temperature 104 °F	ISO 11403-1 -2
	6.72 GPa	974 ksi	
	@Strain 1.87532 %, Temperature 23.0 °C	@Strain 1.87532 %, Temperature 73.4 °F	ISO 11403-1 -2

Mechanical Properties	6.8964 GPa Metric	1000.3 ksi English	Comments ISO 11403-1 -2
	@Strain 0.857481 %, Temperature 40.0 °C	@Strain 0.857481 %, Temperature 104 °F	
	<b>7.62 GPa</b>	<b>1100 ksi</b>	ISO 11403-1 -2
	@Strain 0.453157 %, Temperature 40.0 °C	@Strain 0.453157 %, Temperature 104 °F	
	<b>7.88 GPa</b>	<b>1140 ksi</b>	ISO 11403-1 -2
	@Strain 1.75077 %, Temperature 0.000 °C	@Strain 1.75077 %, Temperature 32.0 °F	
	<b>8.02 GPa</b>	<b>1160 ksi</b>	ISO 11403-1 -2
	@Strain 0.210062 %, Temperature 40.0 °C	@Strain 0.210062 %, Temperature 104 °F	
	<b>8.11 GPa</b>	<b>1180 ksi</b>	ISO 11403-1 -2
	@Strain 1.26111 %, Temperature 23.0 °C	@Strain 1.26111 %, Temperature 73.4 °F	
	<b>8.32 GPa</b>	<b>1210 ksi</b>	ISO 11403-1 -2
	@Strain 1.822 %, Temperature -20.0 °C	@Strain 1.822 %, Temperature -4.00 °F	
	<b>8.55 GPa</b>	<b>1240 ksi</b>	ISO 11403-1 -2
	@Strain 2.01539 %, Temperature -40.0 °C	@Strain 2.01539 %, Temperature -40.0 °F	
	<b>8.90 GPa</b>	<b>1290 ksi</b>	ISO 11403-1 -2
	@Strain 1.23431 %, Temperature 0.000 °C	@Strain 1.23431 %, Temperature 32.0 °F	
	<b>9.21 GPa</b>	<b>1340 ksi</b>	ISO 11403-1 -2
	@Strain 0.786074 %, Temperature 23.0 °C	@Strain 0.786074 %, Temperature 73.4 °F	
	<b>9.36 GPa</b>	<b>1360 ksi</b>	ISO 11403-1 -2
	@Strain 1.26922 %, Temperature -20.0 °C	@Strain 1.26922 %, Temperature -4.00 °F	
	<b>9.54 GPa</b>	<b>1380 ksi</b>	ISO 11403-1 -2
	@Strain 1.4648 %, Temperature -40.0 °C	@Strain 1.4648 %, Temperature -40.0 °F	
	<b>9.62 GPa</b>	<b>1400 ksi</b>	ISO 11403-1 -2
	@Strain 0.806055 %, Temperature 0.000 °C	@Strain 0.806055 %, Temperature 32.0 °F	
	<b>9.99 GPa</b>	<b>1450 ksi</b>	ISO 11403-1 -2
	@Strain 0.453926 %, Temperature 0.000 °C	@Strain 0.453926 %, Temperature 32.0 °F	

Mechanical Properties	Temperature 0.000 °C Metric 10.1 GPa	Temperature 32.0 °F English 1460 ksi	Comments
	@Strain 0.231655 %, Temperature 0.000 °C	@Strain 0.231655 %, Temperature 32.0 °F	ISO 11403-1 -2
	10.1 GPa	1460 ksi	
	@Strain 0.412778 %, Temperature 23.0 °C	@Strain 0.412778 %, Temperature 73.4 °F	ISO 11403-1 -2

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