DuPont Performance Polymers Zytel® LC6200 BK385 Nylon 612 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Impact Modified

Material Notes:

Toughened Polyamide 612 Developed for ExtrusionInformation provided by DuPont Performance Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-LC6200-BK385-Nylon-612-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	0.820 g/cc	0.0296 lb/in³	
	1.00 g/cc	0.0361 lb/in³	DAM; ISO 1183
Viscosity	74000 cP @Shear Rate 5000 1/s, Temperature 270 °C	74000 cP @Shear Rate 5000 1/s, Temperature 518 °F	ISO 11403-1 -2
	88000 cP @Shear Rate 5000 1/s, Temperature 250 °C	88000 cP @Shear Rate 5000 1/s, Temperature 482 °F	ISO 11403-1 -2
	109890 cP @Shear Rate 5000 1/s, Temperature 240 °C	109890 cP @Shear Rate 5000 1/s, Temperature 464 °F	ISO 11403-1 -2
	280000 cP @Shear Rate 500 1/s, Temperature 270 °C	280000 cP @Shear Rate 500 1/s, Temperature 518 °F	ISO 11403-1 -2
	349000 cP @Shear Rate 500 1/s, Temperature 250 °C	349000 cP @Shear Rate 500 1/s, Temperature 482 °F	ISO 11403-1 -2
	425090 cP @Shear Rate 500 1/s, Temperature 240 °C	425090 cP @Shear Rate 500 1/s, Temperature 464 °F	ISO 11403-1 -2
Linear Mold Shrinkage, Flow	0.028 cm/cm	0.028 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Stress	0.850 MPa @Strain 0.110 %, Temperature 40.0 °C	123 psi @Strain 0.110 %, Temperature 104 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	1.13 MPa @Strain 0.0800 %, Temperature 23.0 °C	164 psi @Strain 0.0800 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	1.21 MPa @Strain 0.0800 %, Temperature 0.000 °C	175 psi @Strain 0.0800 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	1.33 MPa @Strain 0.0600 %, Temperature -20.0 °C	193 psi @Strain 0.0600 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	2.37 MPa @Strain 0.920 %, Temperature 90.0 °C	344 psi @Strain 0.920 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	2.82 MPa @Strain 3.27 %, Temperature 150 °C	409 psi @Strain 3.27 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	2.83 MPa @Strain 0.440 %, Temperature 40.0 °C	410 psi @Strain 0.440 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	3.18 MPa @Strain 4.50 %, Temperature 150 °C	461 psi @Strain 4.50 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	3.44 MPa @Strain 0.230 %, Temperature 0.000 °C	499 psi @Strain 0.230 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	4.05 MPa @Strain 0.400 %, Temperature 23.0 °C	587 psi @Strain 0.400 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	4.23 MPa @Strain 0.240 %, Temperature -20.0 °C	614 psi @Strain 0.240 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	5.32 MPa @Strain 0.230 %, Temperature -40.0 °C	772 psi @Strain 0.230 %, Temperature -40.0 °F	50%RH; ISO 11403-1 -2
	5.51 MPa @Strain 2.96 %, Temperature 90.0 °C	799 psi @Strain 2.96 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	7.10 MPa @Strain 48.0 %,	1030 psi @Strain 48.0 %,	DAM; ISO 11403-1 -2

Mechanical Properties	Temperature 150 °C Metric	Temperature 302 °F English	Comments
	13.6 MPa @Strain 48.45 %, Temperature 90.0 °C	1970 psi @Strain 48.45 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	14.12 MPa @Strain 39.22 %, Temperature 90.0 °C	2048 psi @Strain 39.22 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	14.93 MPa @Strain 0.710 %, Temperature -40.0 °C	2165 psi @Strain 0.710 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	17.6 MPa @Strain 1.36 %, Temperature 0.000 °C	2550 psi @Strain 1.36 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	20.87 MPa @Strain 11.52 %, Temperature 40.0 °C	3027 psi @Strain 11.52 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	21.0 MPa @Strain 5.34 %, Temperature 40.0 °C	3050 psi @Strain 5.34 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	21.54 MPa @Strain 2.11 %, Temperature 23.0 °C	3124 psi @Strain 2.11 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	22.66 MPa @Strain 24.42 %, Temperature 40.0 °C	3287 psi @Strain 24.42 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	24.84 MPa @Strain 17.81 %, Temperature 40.0 °C	3603 psi @Strain 17.81 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	25.45 MPa @Strain 31.26 %, Temperature 40.0 °C	3691 psi @Strain 31.26 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	27.84 MPa @Strain 9.53 %, Temperature 23.0 °C	4038 psi @Strain 9.53 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	29.26 MPa @Strain 20.72 %, Temperature 23.0 °C	4244 psi @Strain 20.72 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	32.3 MPa	4680 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 12.4 %, Temperature 23.0 °C	@Strain 12.4 %, Temperature 73.4 °F	ISO 11403-1 -2
	39.26 MPa @Strain 8.21 %, Temperature 0.000 °C	5694 psi @Strain 8.21 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	40.8 MPa @Strain 10.85 %, Temperature 0.000 °C	5920 psi @Strain 10.85 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	47.34 MPa @Strain 3.08 %, Temperature -40.0 °C	6866 psi @Strain 3.08 %, Temperature -40.0 °F	50%RH; ISO 11403-1 -2
	47.91 MPa @Strain 8.21 %, Temperature -20.0 °C	6949 psi @Strain 8.21 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	53.18 MPa @Strain 4.52 %, Temperature -40.0 °C	7713 psi @Strain 4.52 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	60.95 MPa @Strain 8.91 %, Temperature -40.0 °C	8840 psi @Strain 8.91 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	62.14 MPa @Strain 7.35 %, Temperature -40.0 °C	9013 psi @Strain 7.35 %, Temperature -40.0 °F	50%RH; ISO 11403-1 -2
Tensile Strength, Yield	28.0 MPa	4060 psi	50%RH; ISO 527-1/-2
	30.0 MPa	4350 psi	DAM; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	DAM; Nominal; ISO 527-1/-2
	>= 50 %	>= 50 %	50%RH; Nominal; ISO 527-1/-2
Elongation at Yield	20 %	20 %	DAM; ISO 527-1/-2
	30 %	30 %	50%RH; ISO 527-1/-2
Tensile Modulus	0.720 GPa	104 ksi	50%RH; ISO 527-1/-2
	1.08 GPa	157 ksi	DAM; ISO 527-1/-2
	0.110 GPa @Temperature 120 °C	16.0 ksi @Temperature 248 °F	50%RH; ISO 11403-1 -2
	0.130 GPa	18.9 ksi	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 °C	@Temperature 248 °F	DAM; ISO 11403-1 -2
	0.455 GPa @Temperature 40.0 °C	66.0 ksi @Temperature 104 °F	50%RH; ISO 11403-1 -2
	0.680 GPa @Temperature 40.0 °C	98.6 ksi @Temperature 104 °F	DAM; ISO 11403-1 -2
	2.119 GPa @Temperature -40.0 °C	307.3 ksi @Temperature -40.0 °F	DAM; ISO 11403-1 -2
	2.196 GPa @Temperature -40.0 °C	318.5 ksi @Temperature -40.0 °F	50%RH; ISO 11403-1 -2
Secant Modulus	0.0786 GPa @Strain 29.03 %, Temperature 40.0 °C	11.4 ksi @Strain 29.03 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	0.114 GPa @Strain 22.16 %, Temperature 40.0 °C	16.5 ksi @Strain 22.16 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	0.181 GPa @Strain 11.52 %, Temperature 40.0 °C	26.3 ksi @Strain 11.52 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	0.29213 GPa @Strain 9.53 %, Temperature 23.0 °C	42.371 ksi @Strain 9.53 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	0.393 GPa @Strain 5.34 %, Temperature 40.0 °C	57.0 ksi @Strain 5.34 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	0.402 GPa @Strain 12.06 %, Temperature -20.0 °C	58.3 ksi @Strain 12.06 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	0.478 GPa @Strain 8.21 %, Temperature 0.000 °C	69.4 ksi @Strain 8.21 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842

Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China