

## Lanxess Durethan® DP 2131/20 H3.0 000000 Nylon 6, 20% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, Heat Stabilized

### Material Notes:

PA 6, 20% glass fiber, injection molding, heat-ageing stabilized, weather stabilized, improved surface finish  
Information provided by LANXESS.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-DP-213120-H30-000000-Nylon-6-20-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-213120-H30-000000-Nylon-6-20-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in <sup>3</sup>	ISO 60
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	conditioned, 5 mm/min; ISO 527-1,-2
	150 MPa	21800 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527-1,-2
	7.0 %	7.0 %	conditioned, 5 mm/min; ISO 527-1,-2
Tensile Modulus	4.70 GPa	682 ksi	conditioned, 1 mm/min; ISO 527-1,-2
	7.60 GPa	1100 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	130 MPa	18900 psi	conditioned, 2 mm/min; ISO 178-A
	210 MPa	30500 psi	2 mm/min; ISO 178-A
Flexural Modulus	4.10 GPa	595 ksi	conditioned, 2 mm/min; ISO 178-A
	6.40 GPa	928 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	<= 4.76 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180-1A
	<= 10.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	<= 4.76 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	conditioned; ISO 180-1A
	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	conditioned; ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	30.0 kJ/m <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 kJ/m <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	30.0 kJ/m <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	conditioned; ISO 180-1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	45.0 kJ/m <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	conditioned; ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	conditioned; ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	conditioned; ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	conditioned; ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 1.00 J/cm <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric J/cm <sup>2</sup>	English ft-lb/in <sup>2</sup>	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	conditioned; ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	11.1 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	50.0 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1,-2
Melting Point	222 Â°C	432 Â°F	10 Â°C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°F	ISO 75-1,-2
Shrinkage	0.100 % @Temperature 120 Â°C, Time 14400 sec	0.100 % @Temperature 248 Â°F, Time 4.00 hour	post-shrinkage, transverse, 60x60x2; ISO 294-4
	0.200 % @Temperature 120 Â°C, Time 14400 sec	0.200 % @Temperature 248 Â°F, Time 4.00 hour	post-shrinkage, 60x60x2; ISO 294-4

Processing Properties	Metric	English	Comments
Melt Temperature	280 Â°C	536 Â°F	Injection molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection molding; ISO 294
Dry Time	2.00 - 6.00 hour @Temperature 80.0 Â°C	2.00 - 6.00 hour @Temperature 176 Â°F	
Moisture Content	0.030 - 0.12 %	0.030 - 0.12 %	Karl Fischer test

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China