

## Lanxess Durethan® DP AKV 50 HR H2.0 901510 Nylon 66, 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

### Material Notes:

PA 66, injection molding grade, 50% glass fibers, good heat-ageing resistance, and hydrolysis resistance  
Application Examples: coolant manifolds

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Durethan-DP-AKV-50-HR-H20-901510-Nylon-66-50-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-AKV-50-HR-H20-901510-Nylon-66-50-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.552 g/cc	0.05607 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0032 cm/cm	0.0032 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0082 cm/cm	0.0082 in/in	ISO 294-4, 2577
Melt Flow	19 g/10 min @Load 5.00 kg, Temperature 290 °C	19 g/10 min @Load 11.0 lb, Temperature 554 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	159 MPa	23100 psi	Conditioned; ISO 527-1/-2
	221 MPa	32100 psi	ISO 527-1/-2
Elongation at Break	2.7 %	2.7 %	ISO 527-1/-2
	4.4 %	4.4 %	Conditioned; ISO 527-1/-2
Tensile Modulus	10.6 GPa	1540 ksi	Conditioned; ISO 527-1/-2
	15.5 GPa	2250 ksi	ISO 527-1/-2
Charpy Impact Unnotched	9.50 J/cm <sup>2</sup> @Temperature 23.0 °C	45.2 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Conditioned; ISO 179/1eU
	10.0 J/cm <sup>2</sup> @Temperature -30.0 °C	47.6 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	10.5 J/cm <sup>2</sup> @Temperature -30.0 °C	50.0 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	10.5 J/cm <sup>2</sup> @Temperature 23.0	50.0 ft-lb/in <sup>2</sup>	ISO 179/1eU

Mechanical Properties	Metric @Temperature °C	English @Temperature 73.4 °F	Comments
Charpy Impact, Notched	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	Conditioned; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	>= 240 °C	>= 464 °F	ISO 75-1/-2

Descriptive Properties	Value	Comments
Form	Pellets	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

## 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