BASF Ultramid® Endure D3G7 Glass-Fiber Reinforced Polyamide

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Description: Ultramid® Endure is a new, glass-fiber reinforced polyamide that combines excellent heat aging resistance with the good processing properties of PA 66. Ultramid® Endure can withstand continuous use over 3,000 hours at 220° C and temperature peaks of up to 240°, extending the range of applications of polyamide into the high temperature range. Applications: Ultramid® Endure is suitable for all parts exposed to high temperatures over a prolonged period. Potential applications for Ultramid® Endure consequently include all parts in the charge air ducts such as intercooler end caps, resonators, charge-air lines and throttle valves, together with components on the slightly cooler side of the turbocharger. Another possible future field of application for the new material is intake manifolds with integrated water-cooled intercoolers. The high temperatures in these special manifolds push conventional thermoplastic materials for intake manifolds to their limits.Information provided by BASF

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-Endure-D3G7-Glass-Fiber-Reinforced-Polyamide.php

Mechanical Properties	Metric	English	Comments
Tensile Strength	175 MPa @Treatment Temp. 220 °C, Time 5.40e+6 sec	25400 psi @Treatment Temp. 428 °F, Time 1500 hour	
	175 MPa @Treatment Temp. 220 °C, Time 9.00e+6 sec	25400 psi @Treatment Temp. 428 °F, Time 2500 hour	
	195 MPa @Treatment Temp. 220 °C, Time 1.80e+6 sec	28300 psi @Treatment Temp. 428 °F, Time 500 hour	
Tensile Stress	12.0 MPa @Temperature 240 °C	1740 psi @Temperature 464 °F	
	20.0 MPa @Temperature 220 °C	2900 psi @Temperature 428 °F	
	25.0 MPa @Temperature 240 °C	3630 psi @Temperature 464 °F	
	25.0 MPa @Temperature 200 °C	3630 psi @Temperature 392 °F	
	28.0 MPa @Temperature 240 °C	4060 psi @Temperature 464 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 150 °C	@Temperature 302 °F	
	40.0 MPa @Temperature 220 °C	5800 psi @Temperature 428 °F	
	45.0 MPa @Temperature 220 °C	6530 psi @Temperature 428 °F	
	50.0 MPa @Temperature 200 °C	7250 psi @Temperature 392 °F	
	50.0 MPa @Temperature 23.0 °C	7250 psi @Temperature 73.4 °F	
	55.0 MPa @Temperature 200 °C	7980 psi @Temperature 392 °F	
	70.0 MPa @Temperature 150 °C	10200 psi @Temperature 302 °F	
	80.0 MPa @Temperature 150 °C	11600 psi @Temperature 302 °F	
	100 MPa @Temperature 23.0 °C	14500 psi @Temperature 73.4 °F	
	150 MPa @Temperature 23.0 °C	21800 psi @Temperature 73.4 °F	
	200 MPa @Temperature 23.0 °C	29000 psi @Temperature 73.4 °F	
Flexural Strength	70.0 MPa @Treatment Temp. 220 °C, Time 3.60e+6 sec	10200 psi @Treatment Temp. 428 °F, Time 1000 hour	Four point
	105 MPa @Treatment Temp. 220 °C, Time 1.80e+6 sec	15200 psi @Treatment Temp. 428 °F, Time 500 hour	Four point
	110 MPa @Treatment Temp. 220 °C, Time 0.000 sec	16000 psi @Treatment Temp. 428 °F, Time 0.000 hour	Four point

Descriptive Properties	Value	Comments
Commercial Status	Europe	

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