

CAMPUS® Datasheet

Durethan ACF 30 X H2.0 EF 901510 - PA66-(GF+CF)30
LANXESS Deutschland GmbH



Product Texts

PA 66, 30% glass fibers/carbon fibers, injection molding, improved flowability, heat-aging stabilized, improved electrical conductivity

Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
Tensile modulus	1.74E6 / 1.07E6	psi	ISO 527-1/-2
Stress at break	24700 / 16000	psi	ISO 527-1/-2
Strain at break	2.5 / 4.5	%	ISO 527-1/-2
Charpy impact strength, +23 °C	28.5 / 30.9	ftlb/in ²	ISO 179/1eU
Charpy impact strength, -30 °C	28.5 / 26.2	ftlb/in ²	ISO 179/1eU
Charpy notched impact strength, +23 °C	4.76 / 7.14	ftlb/in ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	4.76 / 4.76	ftlb/in ²	ISO 179/1eA
Puncture - maximum force, +23 °C	840 / -	N	ISO 6603-2
Puncture - maximum force, -30 °C	700 / -	N	ISO 6603-2
Puncture energy, +23 °C	3.1 / -	J	ISO 6603-2
Puncture energy, -30 °C	2.3 / -	J	ISO 6603-2
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 10 °C/min	502 / *	°F	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	464 / *	°F	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	482 / *	°F	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	10 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1000 / -	Ohm*m	IEC 60093
Other properties	dry / cond	Unit	Test Standard
Water absorption	5 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1300 / -	kg/m ³	ISO 1183
Test specimen production	Value	Unit	Test Standard
Injection Molding, melt temperature	554	°F	ISO 294
Injection Molding, mold temperature	176	°F	ISO 10724

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Increased electrical conductivity, Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING

Max. water content: 0.03-0.07 %

Drying temperature: 80 °C

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Drying time: Dry air dryer 2-6 h (will depend on the initial moisture content)

PROCESSING

Melt temperature: 280-300 °C

Mold temperature: 80-120 °C

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