Durethan BCF30XH2.0 901510

PA6-(GF+CF)30 — LANXESS Deutschland GmbH

PA 6, 30 % glass fibers/carbon fibers, injection molding, heat-aging stabilized, improved electrical conductivity

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15 / *	cm³/10min	ISO 1133
Temperature	260 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	13500 / 6700	MPa	ISO 527
Stress at break	195 / 100	MPa	ISO 527
Strain at break	3.1 / 5	%	ISO 527
Charpy impact strength (+23°C)	75 / 80	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	60 / 60	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / -	kJ/m²	ISO 179/1eA
Puncture energy, +23°C	2.4 / -	J	ISO 6603-2
Puncture energy, -30°C	1.7 / -	J	ISO 6603-2

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	219 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	UL 94
Thickness tested	1.5 / *	mm	-
Burning behav. at thickness h	HB / *	class	UL 94
Thickness tested	0.8 / *	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	2000 / -	Ohm*m	IEC 62631-3-1
Comparative tracking index	150 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1330 / -	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Characteristics

Processing
Injection Molding

Special Characteristics
Electrically conductive, Heat aging stabilized

Delivery form
Pellets

Injection Molding

PREPROCESSING
Residual moisture content: 0.03-0.12 %
Drying temperature dry air dryer: 80 °C

Drying time dry air dryer: 2-6 h

PROCESSING
Melt temperature (Tmin - Tmax): 270-290 °C

Mold temperature: 80-120 °C

Disclaimer