Durethan BKV 30 EF 000000

ISO Shortname: ISO1874-PA6, MR, 10-090, GF30

	Property	Test Condition	Unit	Standard	guide value d.a.m.	guide value cond.
Rheological properties						
C	Melt volume-flow rate	270 °C; 5 kg	cm³/(10 min)	ISO 1133	75	
	Molding shrinkage, parallel	150x105x3; 260 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.17	
	Molding shrinkage, transverse	150x105x3; 260 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.74	
	Post- shrinkage, parallel	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.04	
	Post- shrinkage, transverse	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.15	
C	Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.23	
C	Molding shrinkage, transverse	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.58	
	Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.05	
	Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.14	
Mechanical properties (23 °C/50 % r. h.)						
C	Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	9300	5700
C	Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	180	100
C	Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.2	6.0
C	Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	65	85
C	Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	50	45
C	Charpy notched impact strength	23 °C	kJ/m²	ISO 179-1eA	12	18
C	Charpy notched impact strength	-30 °C	kJ/m²	ISO 179-1eA	10	10
	Izod impact strength	23 °C	kJ/m²	ISO 180-1U	55	80
	Izod impact strength	-40 °C	kJ/m²	ISO 180-1U	45	40
	Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	10	15
	Izod notched impact strength	-30 °C	kJ/m²	ISO 180-1A	10	10
	Flexural modulus	2 mm/min	MPa	ISO 178	7800	6000
	Flexural strength	2 mm/min	MPa	ISO 178	270	180
	Flexural strain at flexural strength	2 mm/min	%	ISO 178	4.1	5.3
	Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178	255	155
C	Puncture maximum force	23 °C	N	ISO 6603-2	813	
C	Puncture maximum force	-30 °C	N	ISO 6603-2	797	
C	Puncture energy	23 °C	J	ISO 6603-2	2.9	
C	Puncture energy	-30 °C	J	ISO 6603-2	2.8	
	Ball indentation hardness		N/mm²	ISO 2039-1	190	
Thermal properties						
C	Melting temperature	10 °C/min	°C	ISO 11357-1,-3	220	
C	Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	~210	

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C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	~220	
C Temperature of deflection under load	8.00 MPa	°C	ISO 75-1,-2	~150	
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	210	
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10^{-4}/K	ISO 11359-1,-2	0.2	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10^{-4}/K	ISO 11359-1,-2	1.0	
Electrical properties (23 °C/50 % r. h.)					
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	550-<1	
Other properties (23 °C)					
C Density		kg/m³	ISO 1183	1350	
Glass fiber / glass bead / filler content		%	ISO 3451-1	30	
Bulk density		kg/m³	ISO 60	600	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	260	
C Injection molding-Mold temperature		°C	ISO 294	80	
Processing recommendations					
Drying temperature		°C	-	80	
Drying time dry air dryer		h	-	2-6	
Residual moisture content		%	Acc. to Karl Fischer	0.03-0.12	
Melt temperature		°C	-	250-290	
Mold temperature		°C	-	80-120	

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

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Typical Properties

Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

Flammability

Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

Health and Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling LANXESS products mentioned in this publication. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets (MSDS) and product labels. Consult your LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS. For materials that are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturer(s) must be followed.

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