

Durethan BKV130H2.0 901510 DUS008

 ${\sf PA~6,30~\%~glass~fibers,injection~molding,improved~impact~strength,\,heat-aging~stabilized}$

ISO Shortname: ISO 16396-PA 6-I,GF30,GHR,S14-090

Rheological properties C Molding shrinkage, parallel 60x60x2; 280 °C / MT 80 °C; 600 bar C Molding shrinkage, transverse 60x60x2; 280 °C / MT 80 °C; 600 bar Post- shrinkage, parallel 60x60x2; 120 °C; 4 h % Post- shrinkage, transverse 60x60x2; 120 °C; 4 h % Mechanical properties (23 °C/50 % r. h.) Mechanical properties (23 °C/50 % r. h.) C Tensile modulus 1 mm/min MPa C Tensile Stress at break 5 mm/min MPa C Tensile Strain at break 5 mm/min % C Charpy impact strength 23 °C kJ/mi C Charpy impact strength 23 °C kJ/mi C Charpy notched impact strength 23 °C kJ/mi Izod impact strength 23 °C kJ/mi Izod impact strength 23 °C kJ/mi Izod notched impact strength 2 mm/min MPa Flexural strength 2 mm/min MPa Flexural strength 2 mm/min MPa	ISO 527-1,-2 ISO 527-1,-2 ISO 527-1,-2 ISO 527-1,-2 ISO 179-1eU 12 ISO 179-1eU 12 ISO 179-1eA 12 ISO 179-1eA 12 ISO 180-1U 12 ISO 180-1U	2 160 10 2 4.0 8. J 90 90 J 75 75 A 13 20
C Molding shrinkage, transverse C Molding shrinkage, transverse 60x60x2; 280 °C / MT 80 °C; 600 bar Post- shrinkage, parallel Post- shrinkage, transverse 60x60x2; 120 °C; 4 h % Mechanical properties (23 °C/50 % r. h.) C Tensile modulus 1 mm/min MPa C Tensile Stress at break 5 mm/min MPa C Tensile Strain at break 5 mm/min % C Charpy impact strength 23 °C kJ/mi C Charpy notched impact strength 23 °C kJ/mi Izod impact strength 23 °C kJ/mi Izod impact strength 23 °C kJ/mi Izod motched impact strength 23 °C kJ/mi Izod notched impact strength 2 mm/min MPa Flexural strength 2 mm/min MPa Flexural strength 2 mm/min MPa C Puncture maximum force 23 °C N C Puncture maximum force 30 °C J Unture energy 23 °C J Unture energy 30 °C J Unture energy 30 °C J Unture energy 30 °C J Unture energy	ISO 294-4 ISO 294-4 ISO 294-4 ISO 294-4 ISO 527-1,-2 ISO 527-1,-2 ISO 527-1,-2 ISO 527-1,-2 ISO 179-1eU ISO 179-1eU ISO 179-1eA ISO 179-1eA ISO 180-1U ISO 180-1U	0.8 0.1 0.1 0.1 2. 9300 520 2. 160 10 2. 4.0 8. J. 90 90 J. 75 75 A. 13 20 A. <10 <1 80 85
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C Puncture maximum force -30 °C N C Puncture energy 23 °C J C Puncture energy -30 °C J	ISO 178-A	240 12
C Puncture energy 23 °C J C Puncture energy -30 °C J	ISO 6603-2	990
C Puncture energy -30 °C J	ISO 6603-2	765
	ISO 6603-2	4.3
Thermal properties	ISO 6603-2	2.5
• •		
C Melting temperature 10 °C/min °C	ISO 11357-1	,-3 221
C Temperature of deflection under load 1.80 MPa °C	ISO 75-1,-2	202
C Temperature of deflection under load 0.45 MPa °C	ISO 75-1,-2	218
Vicat softening temperature 50 N; 120 °C/h °C	ISO 306	212
C Coefficient of linear thermal expansion, parallel 23 to 55 °C 10 ⁴ /k	K ISO 11359-1	,-2 0.2
C Coefficient of linear thermal expansion, transverse 23 to 55 °C 10 ⁻⁴ /r	K ISO 11359-1	,-2 1.0
Other properties (23 °C)		
C Water absorption (Saturation value) Water at 23 °C %	ISO 62	6.6
C Water absorption (Equilibrium value) 23 °C; 50 % RH %	ISO 62	2.0
C Density kg/m		1360
Bulk density kg/m		700
Processing conditions for test specimens		
C Injection molding-Melt temperature °C	ISO 294	280



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Durethan BKV130H2.0 901510 DUS008

Property	Test Condition	Unit	Standard	guide value ¹
C Injection molding-Mold temperature		°C	ISO 294	80
Processing recommendations				
Drying temperature dry air dryer		°C	-	80
Drying time dry air dryer		h	-	2-6
Residual moisture content		%	Acc. to Karl Fischer	0.03-0.12
Melt temperature (Tmin - Tmax)	,	°C	-	260-290
Mold temperature		°C	=	80-100

Notes



¹ Typical properties: these are not to be construed as specifications

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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Disclaimer

Standard Disclaimer

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee, and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

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.

Regulatory Compliance

Some of the end uses of the products described in this brochure must comply with applicable regulations, such as the FDA, NSF, USDA and CPSC. If you have any questions on the regulatory status of any LANXESS engineering thermoplastic, consult your LANXESS Corporation representative or contact the LANXESS Regulatory Affairs Manager.

Color and Visual Effects

Type and quantity of pigments or additives used to obtain certain colors and special visual effects can affect mechanical properties.

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Page 3 of 3

Edition 01.03.2022

