Datasheet
Durethan BKV240H3.0XCP 000000

PA 6, 40% glass fibers, injection molding, improved impact modified, heat-aging stabilized

ISO Shortname: ISO 16396-PA 6-I,G40,GHR,S14-110

Property	Test Condition	Unit	Standard	guide value [1] d.a.m.	guide value [1] cond.
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	11000	6000
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	160	100
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	5.5	11
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	110	125
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	105	
C Charpy notched impact strength	23 °C	kJ/m²	ISO 179-1eA	30	50
C Charpy notched impact strength	-30 °C	kJ/m²	ISO 179-1eA	17	
Flexural modulus	2 mm/min	MPa	ISO 178-A	10100	6300
Flexural strength	2 mm/min	MPa	ISO 178-A	255	150
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	5	5.5
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	235	125
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	203	
Other properties (23 °C)					
C Density		kg/m³	ISO 1183	1410	
Bulk density		kg/m³	ISO 60	700	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	290	
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	-	280-300	
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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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 Envalior 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 Envalior representative or contact the Product Safety and Regulatory Affairs Department. For materials that are not Envalior products, appropriate industrial hygiene and other safety precautions recommended by their manufacturer(s) must be followed.

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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 Envalior engineering thermoplastic, consult your Envalior representative or contact the 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.