

Datasheet

Durethan BG30XH3.0 000000

PA 6, 30% glass fibers/glass spheres, injection molding, heat-aging stabilized, low tendency to warp

ISO Shortname: ISO 16396-PA 6,(GB+GF)30,GHR,S14-060

Property	Test Condition	Unit	Standard	guide value ¹	
				dry as molded	conditioned
Mechanical properties (23 °C/50 % r. h.)					
Tensile modulus		lb/in ²	ASTM D 638	900000	450000
Tensile elongation at break		%	ASTM D 638	4.0	10.0
Tensile stress at break		lb/in ²	ASTM D 638	17600	9100
Flexural strength		lb/in ²	ASTM D 790	28300	14500
Flexural modulus		lb/in ²	ASTM D 790	841000	406000

Notes

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

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Disclaimer

Disclaimer for commercial products

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Test values

Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the coloring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

Conditioning

Conditioning in accordance with ISO 1110 (70 °C; 62 % r.h.)

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