

Datasheet

Durethan B40SKW1 000000

PA 6, non-reinforced, injection molding, weather stabilized

ISO Shortname: ISO 16396-PA 6,,GLR,S22-030

Property	Test Condition	Unit	Standard	guide value ¹ d.a.m. cond.	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	3200	900
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	85	40
C Yield strain	50 mm/min	%	ISO 527-1,-2	4.0	25
C Nominal strain at break	50 mm/min	%	ISO 527-1,-2	20	> 50
Thermal properties					
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	222	
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	55	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	180	
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	200	
Other properties (23 °C)					
C Water absorption (Saturation value)	Water at 23 °C	%	ISO 62	10	
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	3.0	
C Density		kg/m³	ISO 1183	1140	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	270	
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	-	260-80	
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.

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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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Color and Visual Effects

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