

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	
				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/m ³	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	

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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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.)

LANXESS DEUTSCHLAND GMBH | D-50569 COLOGNE

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