

Durethan DP BKV 60 H2.0 EF 900116

PA 6, injection molding grade, 60 % glassfibres, low viscosity, good flowability (EasyFlow)

Property	Test Condition	Unit	Standard	Value d.a.m.	cond.
Rheological properties					
C Melt volume-flow rate	270 °C; 5 kg	cm ³ /(10 min)	ISO 1133	10	
Molding shrinkage, parallel	150x105x3; 280 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.19	
Molding shrinkage, normal	150x105x3; 280 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.55	
Post- shrinkage, parallel	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.03	
Post- shrinkage, normal	150x105x3; 120 °C; 4 h	%	acc. ISO 2577	0.02	
Post- shrinkage, parallel	60x60x2	%	ISO 294-4	0.02	
Post- shrinkage, normal	60x60x2	%	ISO 294-4	0.09	
Mechanical properties (23 °C/50 % r. h.)					
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	18900	13100
C Stress at break	5 mm/min	MPa	ISO 527-1,-2	235	150
C Strain at break	5 mm/min	%	ISO 527-1,-2	2.1	3.1
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	90	90
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	90	80
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	80	75
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	80	75
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	15	20
Flexural modulus	2 mm/min	MPa	ISO 178	17200	13100
Flexural strength	2 mm/min	MPa	ISO 178	365	245
Flexural strain at flexural strength	2 mm/min	%	ISO 178	3.0	4.0
Thermal properties					
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	~215	
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	~220	
C Temperature of deflection under load	8.00 MPa	°C	ISO 75-1,-2	~190	
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	210	
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.2	
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.7	
Electrical properties (23 °C/50 % r. h.)					
C Relative permittivity	100 Hz	-	IEC 60250	5.3	11.2
C Relative permittivity	1 MHz	-	IEC 60250	4.7	5.1
C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	164	2149
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	177	651
C Volume resistivity		Ohm·m	IEC 60093	5.8E12	8E9
C Electric strength	1 mm	kV/mm	IEC 60243-1	33	33
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	600-<1	
Comparative tracking index CTI M	Solution B	Rating	IEC 60112	250M-<1	



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Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1690	
Glass fiber / glass bead / filler content		%	ISO 3451-1	60	
Processing conditions for test specimens					
C Injection molding-Melt temperature		°C	ISO 294	280	
C Injection molding-Mold temperature		°C	ISO 294	80	

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.

Disclaimer

Disclaimer for developmental products

This is a developmental product. Further information, including amended or supplementary data on hazards associated with its use, may be compiled in the future. For this reason no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, the purchaser/user uses the product entirely at his own risk without having been given any warranty or guarantee and agrees that the supplier shall not be liable for any damages, of whatever nature, arising out of such use. Commercialization and continued supply of this material are not assured. Its supply may be discontinued at any time. Our products are sold and our advisory service is given in accordance with the current version of our General Conditions of Sale and Delivery.

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 colouring.

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.

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