

Datasheet

Durethan C38FAM 000000

PA 6-Copolymer, non-reinforced, extrusion, suitable for food-contact

ISO Shortname: ISO 16396-PA 6/IPDI,,ES,S18-020

Property	Test Condition	Unit	Standard	guide value ¹ d.a.m. cond.
Rheological properties				
C Melt volume-flow rate	235 °C; 2.16 kg	cm ³ /(10 min)	ISO 1133-1	5
Thermal properties				
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	212
Electrical properties (23 °C/50 % r. h.)				
C Relative permittivity	1 MHz	-	IEC 60250	3
C Volume resistivity		Ohm·m	IEC 62631-3	1E11
C Surface resistivity		Ohm	IEC 62631-3	1E11
C Electric strength	1 mm	kV/mm	IEC 60243-1	30
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
C Density		kg/m ³	ISO 1183	1130
Bulk density		kg/m ³	ISO 60	700
Processing recommendations				
Drying temperature dry air dryer		°C	-	80
Drying time dry air dryer		h	-	2-6

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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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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