

Processing conditions for test specimens



Durethan A30SFN31 000000

PA 66, non-reinforced, injection molding, halogen free flame retardant, improved flowability, heat-aging stabilized

ISO Shortname: ISO 16396-PA 66+PA 6,FR(30),GF2HR,S12-040

Test Condition	Unit	Standard	guide value	
			d.a.m.	cond.
60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	1.1	
60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	1.1	
60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1	
60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1	
1 mm/min	MPa	ISO 527-1,-2	3800	1500
50 mm/min	MPa	ISO 527-1,-2	85	50
50 mm/min	%	ISO 527-1,-2	4.1	>20
23 °C	kJ/m²	ISO 179-1eU	60	N
-30 °C	kJ/m²	ISO 179-1eU	50	80
23 °C	kJ/m²	ISO 179-1eA	<10	<10
			55	N
				60
				<10
2 mm/min		ISO 178-A		1600
				55
				7,8
				40
		ISO 11357-1,-3		
1.80 MPa		ISO 75-1,-2		
0.45 MPa		ISO 75-1,-2	212	
50 N; 120 °C/h	°C	ISO 306	230	
23 to 55 °C	10-4/K	ISO 11359-1,-2	0.8	
23 to 55 °C	10-4/K	ISO 11359-1,-2	0.7	
1.5 mm	Class	UL 94	V-0	
0.4 mm	Class	UL 94	V-0	
Method A		ISO 4589-2	34	
0.4 mm	°C	IEC 60695-2-12	960	
0.75 mm	°C	IEC 60695-2-12	960	
1.5 mm	°C	IEC 60695-2-12	960	
3.0 mm	°C	IEC 60695-2-12	960	
0.4 mm	°C	IEC 60695-2-13	775	
0.75 mm	°C	IEC 60695-2-13	775	
1.5 mm	°C	IEC 60695-2-13	775	
3.0 mm	°C	IEC 60695-2-13	775	
100 Hz	-	IEC 60250	4.0	8.0
1 MHz	-	IEC 60250	4.0	4.0
100 Hz	10-4	IEC 60250	120	2000
1 MHz	10-4	IEC 60250	190	550
	Ohm⋅m	IEC 60093	1E12	1E11
	Ohm	IEC 60093	1E15	1E13
1 mm	kV/mm	IEC 60243-1	30	25
Solution A	Rating	IEC 60112	600	
	2/	10.0.00		
23 °C; 50 % RH	%	ISO 62	2.6	
	kg/m³	ISO 1183	1169	
	60x60x2; 260 °C / MT 80 °C; 600 bar 60x60x2; 260 °C / MT 80 °C; 600 bar 60x60x2; 120 °C; 4 h 60x60x2; 120 °C; 4 h 1 mm/min 50 mm/min 50 mm/min 23 °C -30 °C 23 °C 23 °C 23 °C 23 °C 20 °C/ 20 °C/ 20 °C/ 20 °C/ 20 °C/ 20 °C/ 21 °C/ 21 °C/ 22 °C/ 23 °C 23 °C 23 °C 21 °C/ 20 °C/ 20 °C/ 20 °C/ 21 °C/ 21 °C/ 22 °C/ 23 °C 23 °C 21 °C/ 20 °C/ 20 °C/ 20 °C/ 21 °C/ 21 °C/ 22 °C/ 23 °C/ 23 °C/ 23 °C/ 23 °C/ 24 °C/ 25 °C/ 26 °C/ 27 °C/ 28 °C/ 29 °C/ 29 °C/ 29 °C/ 20 °C/ 20 °C/ 20 °C/ 20 °C/ 21 °C/ 21 °C/ 22 °C/ 23 °C/ 23 °C/ 23 °C/ 23 °C/ 23 °C/ 24 °C/ 25 °C/ 26 °C/ 27 °C/ 28 °C/ 29 °C/ 29 °C/ 20 °C/ 2	60x60x2; 260 °C / MT 80 °C; 600 % bar 60x60x2; 260 °C / MT 80 °C; 600 % 60x60x2; 120 °C; 4 h % 60x60x2; 120 °C; 4 h % 1 mm/min MPa 50 mm/min MPa 50 mm/min MPa 53 °C kJ/m² 23 °C kJ/m² 23 °C kJ/m² 23 °C kJ/m² 23 °C kJ/m² 2 mm/min MPa 10 °C/min °C 1.80 MPa °C 0.45 MPa °C 0.45 MPa °C 0.45 MPa °C 0.45 MPa °C 0.47 mm Class 0.4 mm Class 0.4 mm °C 0.75 mm °C 1.5 mm	B0x60x2; 260 °C / MT 80 °C; 600	BOXBOX2, 280 "C / MT 80 "C; 600 % ISO 294-4 1.1

60
30
30
-6
-0.07
-270
-100
3

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.

Health and Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling LANXESS 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 LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS. For materials that are not LANXESS 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.

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