

Durethan® B30SFN30

PA6 FR(30)

Injection Molding, Unreinforced, Flame Retardant (halogen free), Heat Stabilized

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.9 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	3700 / 1200	MPa	ISO 527-1/-2
Nominal strain at break	10 / >50	%	ISO 527-1/-2
Yield stress	80 / 40	MPa	ISO 527-1/-2
Yield strain	3.5 / 20	%	ISO 527-1/-2
Flexural modulus	3600 / 1200	MPa	ISO 178
Flexural strength	120 / 45	MPa	ISO 178
Charpy impact strength (+23°C)	90 / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / 15	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	65 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	185 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.7 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Oxygen index	40 / *	%	ISO 4589-1/-2

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.4 / –	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	0.75 / –	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	960 / –	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.4 / –	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	960 / –	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	0.75 / –	mm	IEC 60695-2-13
<i>ELECTRICAL PROPERTIES</i>	<i>DRY / COND</i>		
Volume resistivity	1E13 / –	Ohm*m	IEC 62631-3-1
Electric strength	31 / –	kV/mm	IEC 60243-1
Comparative tracking index	600 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>	<i>DRY / COND</i>		
Water absorption	8.9 / *	%	Sim. to ISO 62
Humidity absorption	2.8 / *	%	Sim. to ISO 62
Density	1160 / –	kg/m ³	ISO 1183
<i>PROCESSING RECOMMENDATIONS</i>	<i>VALUE</i>		
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2-6	h	
Residual moisture content	0.03-0.07	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	255-270	°C	
Mold temperature	80-100	°C	

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