

Durethan® B30SF30 DUS064

PA6 FR(17)

Injection Molding, Unreinforced, Flame Retardant, Heat Stabilized

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	1.1 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	3600 / –	MPa	ISO 527-1/-2
Nominal strain at break	9 / –	%	ISO 527-1/-2
Yield stress	70 / –	MPa	ISO 527-1/-2
Yield strain	3.7 / –	%	ISO 527-1/-2
Flexural modulus	3200 / –	MPa	ISO 178
Flexural strength	110 / –	MPa	ISO 178
Charpy impact strength (+23°C)	150 / –	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	130 / –	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / –	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / –	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / –	kJ/m²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	70 / *	°C	ISO 75-1/-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
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10



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Burning Behav. at 0.4 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5 / -	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	900 / -	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	0.75 / -	mm	IEC 60695-2-13
ELECTRICAL PROPERTIES		DRY / COND	
Comparative tracking index	275 / -	V	IEC 60112
OTHER PROPERTIES		DRY / COND	
Density	1350 / -	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS		VALUE	
Drying temperature dry air dryer	80	°C	
Drying time dry air dryer	2-6	h	
Residual moisture content	0.03-0.12	%	acc. to Karl Fischer
Melt temperature (Tmin – Tmax)	250-270	°C	
Mold temperature	80-100	°C	
admissible residence time at Tmax	<5	min	

