

# Durethan<sup>®</sup> B30SF30 DUS064

## PA6 FR(17)

Injection Molding, Unreinforced, Flame Retardant, Heat Stabilized

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	1.1 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
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/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	130 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / -	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
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
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-12

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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 (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
 <b><i>ELECTRICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Comparative tracking index	275 / –	V	IEC 60112
 <b><i>OTHER PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Density	1350 / –	kg/m³	ISO 1183
 <b><i>PROCESSING RECOMMENDATIONS</i></b>			
	<i>VALUE</i>		
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	

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