

# Durethan<sup>®</sup> ECOBKV20FN20

## PA6—GF20 FR(30)

Injection Molding, 20% Glass Fiber Reinforced, Flame Retardant (halogen free), Heat Stabilized, Recycled Content

Print Date: 2025-10-14

### Sustainability

Mass balanced  
Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>		<b>DRY / COND</b>	
Molding shrinkage (parallel)	0.6 / *	%	ISO 294-4
Molding shrinkage (normal)	0.7 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>		<b>DRY / COND</b>	
Tensile modulus	6100 / 3100	MPa	ISO 527-1/-2
Stress at break	100 / 55	MPa	ISO 527-1/-2
Strain at break	3 / 15	%	ISO 527-1/-2
Flexural modulus	6100 / 3200	MPa	ISO 178
Flexural strength	170 / 90	MPa	ISO 178
Charpy impact strength (+23°C)	35 / 100	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	30 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / <10	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<10 / <10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / 11	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)	185 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.4 / *	E-4/°C	ISO 11359-1/-2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
Burning Behav. at 0.75 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
Oxygen index	26.9 / *	%	ISO 4589-1/-2
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	775 / -	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.75 / -	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	775 / -	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	1.5 / -	mm	IEC 60695-2-13
ELECTRICAL PROPERTIES		DRY / COND	
Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
Electric strength	32 / -	kV/mm	IEC 60243-1
Comparative tracking index	500 / -	V	IEC 60112
OTHER PROPERTIES		DRY / COND	
Water absorption	7 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1310 / -	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS		VALUE	
Drying temperature dry air dryer	80	°C	

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Drying time dry air dryer	2-6	h	
Residual moisture content	0.03-0.07	%	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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