

Durethan® DPAKV30FN00

(PA66+PA6)–GF30 FR(40+72)

30% Glass Reinforced, Injection Molding, Flame Retardant (halogen free), Heat Stabilized

Print Date: 2024–08–24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294–4
Molding shrinkage (normal)	0.7 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	10500 / 6500	MPa	ISO 527–1/–2
Stress at break	135 / 85	MPa	ISO 527–1/–2
Strain at break	2.8 / 5.4	%	ISO 527–1/–2
Flexural modulus	10500 / 5600	MPa	ISO 178
Flexural strength	215 / 135	MPa	ISO 178
Charpy impact strength (+23°C)	65 / –	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	60 / –	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)	260 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	224 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	250 / *	°C	ISO 75–1/–2
Burning Behav. at 1.5 mm nom. thickn.	V–0 / *	class	IEC 60695–11–10
Thickness tested	5VA / *	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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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	750 / –	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	0.4 / –	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	750 / –	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	0.75 / –	mm	IEC 60695-2-13
ELECTRICAL PROPERTIES			
	DRY / COND		
Relative permittivity (100Hz)	3.9 / 7.7	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.4 / 4	–	IEC 62631-2-1
Dissipation factor (100 Hz)	130 / 1130	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	135 / 575	E-4	IEC 62631-2-1
Volume resistivity	>1E13 / 2.5E11	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 3.3E14	Ohm	IEC 62631-3-2
Electric strength	40 / 34	kV/mm	IEC 60243-1
Comparative tracking index	600 / –	V	IEC 60112
OTHER PROPERTIES			
	DRY / COND		
Water absorption	4.4 / *	%	Sim. to ISO 62
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1420 / –	kg/m ³	ISO 1183
MATERIAL SPECIFIC PROPERTIES			
	DRY / COND		
Viscosity number	135 / *	cm ³ /g	ISO 307, 1157, 1628
PROCESSING RECOMMENDATIONS			
	VALUE		
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

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Melt temperature (Tmin – Tmax)	265–285	°C	
Mold temperature	80–100	°C	

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