

Durethan[®] AKV50H3.0

PA66-GF50

50% Glass Reinforced, Injection Molding, Heat Stabilized

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.37 / *	%	ISO 294–4
Molding shrinkage (normal)	0.93 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	16000 / -	MPa	ISO 527-1/-2
Stress at break	230 / -	MPa	ISO 527-1/-2
Strain at break	2.5 / -	%	ISO 527-1/-2
Flexural modulus	15300 / -	MPa	ISO 178
Flexural strength	360 / -	MPa	ISO 178
Charpy impact strength (+23°C)	100 / -	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	100 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	17 / -	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	15 / -	kJ∕m²	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / -	kJ/m²	ISO 180/1A
THERMAL PROPERTIES	DRY / COND		
Melting temperature (10°C/min)	262 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	250 / *	°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.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10

Print Date: 2024-12-10

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YPICAL DATA	UNIT	TEST METHOD
IB / *	class	IEC 60695-11-10
		IEC 60695–11–10
		110 00000 11 10
DRY / COND		
5/-	_	IEC 62631-2-1
1.4 / -	_	IEC 62631-2-1
250 / -	E-4	IEC 62631-2-1
230 / -	E-4	IEC 62631-2-1
.E13 / -	Ohm*m	IEC 62631-3-1
38 / -	kV/mm	IEC 60243-1
500 / -	V	IEC 60112
DRY / COND		
.570 / -	kg/m³	ISO 1183
.46 / *	cm³/g	ISO 307, 1157, 1628
/ALUE		
30	°C	
90	0	
2–6	h	
-	-	acc. to Karl Fischer
2–6	h	
	IB / * 0.75 / * 0.75 / * 0.775 / * 0.775 / * 0.775 / COND 1.30 / - 1.30 / - 1.	IB /* class 0.75 /* mm 0RY / COND - 30 / - - 250 / - E-4 30 / - E-4 230 / - V 28 / - kV/mm 200 / - V 000 / - V 0RY / COND Kg/m³ 0RY / COND Kg/m³ 46 /* cm³/g

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