

# Durethan® BKV35H2.0 DUS800

Akulon® K224-HG7

## PA6-GF35

35% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2026-04-03

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Tensile modulus	11000 / 7000	MPa	ISO 527-1/-2
Stress at break	190 / 125	MPa	ISO 527-1/-2
Strain at break	3.5 / 7	%	ISO 527-1/-2
Flexural modulus	10500 / 6450	MPa	ISO 178
Flexural strength	305 / 180	MPa	ISO 178
Tensile modulus (200°C)	2800	MPa	ISO 527-1/-2
Stress at break (200°C)	50	MPa	ISO 527-1/-2
Strain at break (200°C)	11.6	%	ISO 527-1/-2
Charpy impact strength (+23°C)	90 / 100	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	75 / 75	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	14 / 24	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	12 / 12	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	15 / 20	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL PROPERTIES</b>			
	<b>DRY / COND</b>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	210 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2

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## Property Data

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Akulon® K224-HG7

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Coeff. of linear therm. expansion (normal)	0.7 / *	E-4/°C	ISO 11359-1/-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
Burning Behav. at 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10

### ELECTRICAL PROPERTIES

#### DRY / COND

Relative permittivity (100Hz)	4.8 / -	-	IEC 62631-2-1
Relative permittivity (1 MHz)	4.3 / -	-	IEC 62631-2-1
Dissipation factor (100 Hz)	170 / -	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	220 / -	E-4	IEC 62631-2-1
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	- / 1E13	Ohm	IEC 62631-3-2
Electric strength	35 / 25	kV/mm	IEC 60243-1
Comparative tracking index	- / 500	V	IEC 60112

### OTHER PROPERTIES

#### DRY / COND

Water absorption	6.2 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1410 / -	kg/m³	ISO 1183

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