Property Data

Envalior
Imagine the Future

Durethan® AKV30XTS2

PA66–GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Excellent Surface Properties

Print Date: 2024–08–24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.35 / *	%	ISO 294–4
Molding shrinkage (normal)	0.7 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	10000 / 6500	MPa	ISO 527–1/–2
Stress at break	190 / 120	MPa	ISO 527–1/–2
Strain at break	3 / 7.5	%	ISO 527–1/–2
Flexural modulus	9500 / 6500	MPa	ISO 178
Flexural strength	280 / 195	MPa	ISO 178
Tensile modulus (200°C)	2780	MPa	ISO 527–1/–2
Charpy impact strength (+23°C)	60 / 95	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	50 / 45	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / 12	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	<10 / <10	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	<10 / 12	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)	235 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	250 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.23 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.9 / *	E–4/°C	ISO 11359–1/–2

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ELECTRICAL PROPERTIES	**DRY / COND**		
Comparative tracking index	600 / –	V	IEC 60112
OTHER PROPERTIES	**DRY / COND**		
Water absorption	6.3 / *	%	Sim. to ISO 62
Density	1380 / –	kg/m³	ISO 1183
PROCESSING RECOMMENDATIONS	**VALUE**		
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)	270–290	°C	
Mold temperature	80–100	°C	
admissible residence time at Tmax	<5	min	