

Durethan® AKV30GHR DUS023

PA66—GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Hydrolysis resistant,
Improved flow, Excellent Surface Properties

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.64 / *	%	ISO 294-4
Molding shrinkage (normal)	0.82 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	8500 / 5600	MPa	ISO 527-1/-2
Stress at break	135 / 90	MPa	ISO 527-1/-2
Strain at break	3.2 / 6.5	%	ISO 527-1/-2
Flexural modulus	8000 / 5600	MPa	ISO 178
Flexural strength	215 / 150	MPa	ISO 178
Charpy impact strength (+23°C)	70 / 65	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	55 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	<10 / <10	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 / <10	kJ/m²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	259 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	245 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9 / *	E-4/°C	ISO 11359-1/-2

OTHER PROPERTIES

DRY / COND



Durethan® AKV30GHR DUS023

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Density	1340 / –	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)	280–300	°C	
Mold temperature	80–120	°C	

