

Durethan[®] AKV35LTH2.0

PA66–GF35

35% Glass Reinforced, Injection Molding, Heat Stabilized, Laser Transparent Black

Print Date: 2024–08–24

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>RHEOLOGICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	0.8 / *	%	ISO 294–4
<i>MECHANICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Tensile modulus	10800 / 7500	MPa	ISO 527–1/–2
Stress at break	192 / 119	MPa	ISO 527–1/–2
Strain at break	3 / 5.7	%	ISO 527–1/–2
Flexural modulus	9700 / 7800	MPa	ISO 178
Flexural strength	293 / 214	MPa	ISO 178
Charpy impact strength (+23°C)	70 / 80	kJ/m ²	ISO 179/1eU
Izod notched impact strength (+23°C)	10 / 15	kJ/m ²	ISO 180/1A
<i>THERMAL PROPERTIES</i>			
	<i>DRY / COND</i>		
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)	0.2 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.7 / *	E–4/°C	ISO 11359–1/–2
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1400 / –	kg/m ³	ISO 1183
<i>PROCESSING RECOMMENDATIONS</i>	<i>VALUE</i>		

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
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	

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