

Durethan® BKV230 DUS008

PA6-I-GF30

30% Glass Reinforced, Injection Molding, Improved Impact

Print Date: 2024-08-24

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	0.8 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	8500 / 4200	MPa	ISO 527-1/-2
Stress at break	130 / 80	MPa	ISO 527-1/-2
Strain at break	4.1 / 8.6	%	ISO 527-1/-2
Flexural modulus	7400 / 4200	MPa	ISO 178
Flexural strength	205 / 125	MPa	ISO 178
Tensile modulus (200°C)	2370	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	85 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	95 / 90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	20 / 37	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	13 / 13	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	20 / 35	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	198 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	218 / *	°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 0.75 mm nom. thickn.	HB / *	class	IEC 60695-11-10

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Thickness tested	0.75 / *	mm	IEC 60695-11-10
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Density	1320 / –	kg/m³	ISO 1183
<i>PROCESSING RECOMMENDATIONS</i>		<i>VALUE</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)	260-290	°C	
Mold temperature	80-100	°C	

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