ARGUS
Additive Plastics GmbH

TECHNICAL DATASHEET

Argutec P 302 PA6 GF30 Black

PA6 – 30 % glass fiber – heat stabilized

Properties	Unit	Test method	Conditions	Value
Mechanical Properties				
Tensile Strength at Yield	MPa	ISO 527		-
Tensile Strength at Break	MPa	ISO 527		130
Tensile Modulus	MPa	ISO 527		7000
Tensile Strain at Yield	%	ISO 527		-
Tensile Strain at Break	%	ISO 527		3
Izod - Notched Impact Strength	kJ/m²	ISO 180/A		7
Izod - Unnotched Impact Strength	kJ/m²	ISO 180/U		45
Charpy - Notched Impact Strength	kJ/m²	ISO 179/1eA		7
Charpy - Unnotched Impact Strength	kJ/m²	ISO 179/1eU		50
Thermal Properties				
Melting point	°C	-	DSC	222
Vicat Softening Temperature A	°C	ISO 306	9,8 N	210
Heat deflection temperature	°C	ISO 75-2	1.81 MPa	205
Heat deflection temperature	°C	ISO 75-2	0,45 MPa	210
Heat Resistance / Ball Pressure Test	°C	IEC 335-1IEC 60695-10-2		> 165
Continuous usage temperature	°C	IEC 60216	20.000 h	100
Electric Properties				
Glow Wire Flammability Index	°C	IEC 60695-2-12	GWFI - 2 mm	650
Comparative tracking index	V	IEC 60112	CTI	550
Flammability	-	UL 94	3,2 / 1,6 / 0,8 mm	HB / HB / -
Burning Rate	mm/min	FMVSS302 ISO 3795		< 100
General Properties				
Density	g/cm³	ISO 1183		1.36

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Melt Flow Index	g/10min	ISO 1133		-
Moisture absorption	%	ISO 62	23°C/50% r.h.	2,1
Mould shrinkage (average)	%	ISO 294-4		0,7 – 0,9
Molding Conditions				
Drying Temperature	°C	-	> 3 h	80 - 90
Molding temperature	°C	-		230 – 260
Mold temperature	°C	-		70 - 90

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