



# Preliminary Data sheet

Tailor made Engineering Plastic

## Product: Kayflam PA6 101-FR/GF25 Black 94110

Injection moulding type reinforced 25 % glass fibres, Halogen free flame retardant

TYPICAL PROPERTIES ①	Standard	Unit	TYPICAL VALUE	
			Dry	Conditioned
<b>PHYSICAL:</b>				
Density	ISO 1183	g/cm <sup>3</sup>	1.34	--
Moisture absorption (23°C / 50% RH)	ISO 62	%		--
Melt Volume Rate, MVR at 275°C/5kg	ISO 1133	cm <sup>3</sup> /10 min		--
Filler content		%	25	--
<b>MECHANICAL:</b>				
Tensile Modulus	23°C ISO 527 -2	Mpa	9400	5000
Tensile Stress at break	23°C ISO 527 -2	Mpa	140	80
Tensile Strain, yield	23°C ISO 527 -2	%	3	6
Flexural Modulus	23°C ISO 178/A	MPA	8200	4000
<b>IMPACT:</b>				
Izod Impact, notched	23°C ISO 180 - 1A	KJ/m <sup>2</sup>	50	
Charpy impact unnotched	23°C ISO 179	KJ/m <sup>2</sup>		--
Charpy notched impact strength	23°C ISO 179	KJ/m <sup>2</sup>	< 10	--
<b>THERMAL:</b>				
Vicat softening temperature	ISO 306	°C	205	--
Heat deflection temperature HDT A	ISO 75	°C		--
Flammability UL 94	UL 94	1.6 mm	V-0	--
<b>ELECTRICAL:</b>				
Volume Resistivity	IEC 60093	Ohm-cm		
Dielectric Strength in oil 0,8 mm	IEC 60243	KV/mm		
<b>PROCESSING PARAMETERS / Injection moulding</b>				
Drying Temperature		°C	80	
Drying Time		Hrs	2 - 6	
Melt Temperature		°C	270 - 290	
Mould Temperature		°C	80 -120	

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① Typical values only. Variations within normal tolerances are possible for various colours. They are based on our general experience and given in good faith, but we are unable to accept responsibility in respect of factors which are outside our knowledge or control

Kays Kft. Quality system is validated / certificated to ISO 9001 - 2008 by TÜVReinland InterCert Kft.