

AKROMID® C3 GF 30 1 FR black (7243)

(PA66+PA6)-GF30

Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10800 / 7500	MPa	ISO 527
Stress at break	148 / 105	MPa	ISO 527
Strain at break	3 / 3.9	%	ISO 527
Charpy impact strength, +23°C	74 / -	kJ/m ²	ISO 179/1eU

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	262 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	225 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	251 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	168 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	-
Burning behav. 5V at thickness h	5VA / *	class	IEC 60695-11-20
Thickness tested	1.6 / *	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.4	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	0.8	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (3)	1.6	mm	-
Glow Wire Ignition Temperature (GWIT)	725	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.4	mm	-
Glow Wire Ignition Temperature (GWIT)	725	°C	IEC 60695-2-13
GWIT - thickness tested (2)	0.8	mm	-
Glow Wire Ignition Temperature (GWIT)	725	°C	IEC 60695-2-13
GWIT - thickness tested (3)	1.6	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Electric strength	24 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Density	1420 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	300	°C	-
Mold temperature	90	°C	-
Injection pressure	75	MPa	-

Characteristics**Processing**

Injection Molding

Certifications

RoHS compliant

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(PA66+PA6)-GF30

Akro-Plastic GmbH

Delivery form

Black

Applications

Automotive

Special Characteristics

Flame retardant, Halogen-free, Heat stabilized or stable to heat

Regional Availability

Europe, Asia Pacific