AKROMID® A3 GF 30 FR orange (7871)

PA66-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	**0.8 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**10400 / -**	MPa	ISO 527
Stress at break	**140 / -**	MPa	ISO 527
Strain at break	**2.3 / -**	%	ISO 527
Charpy impact strength, +23°C	**60 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**10 / -**	kJ/m²	ISO 179/1eA

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	**246 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**261 / ***	°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	-
Yellow Card available	**yes / ***	-	-
Burning behav. at thickness h	**V-0 / ***	class	IEC 60695-11-10
Thickness tested	**0.4 / ***	mm	-
Yellow Card available	**yes / ***	-	-
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)	**750**	°C	IEC 60695-2-13
GWIT - thickness tested (1)	**0.4**	mm	-
Glow Wire Ignition Temperature (GWIT)	**750**	°C	IEC 60695-2-13
GWIT - thickness tested (2)	**0.8**	mm	-
Glow Wire Ignition Temperature (GWIT)	**750**	°C	IEC 60695-2-13
GWIT - thickness tested (3)	**1.6**	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	**600 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Density	**1380 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	**320**	°C	-
Mold temperature	**100**	°C	-
Injection pressure	**75**	MPa	-

Characteristics

Processing
Injection Molding

Applications
Electrical and Electronical

Special Characteristics
Flame retardant, Halogen-free

Regional Availability
Europe, Asia Pacific

Certifications

RoHS compliant