AKROMID® B3 1 FR natural (6437)

PA6 Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.0 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.1 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**3500 / 1400**	MPa	ISO 527
Yield stress	**75 / 40**	MPa	ISO 527
Charpy impact strength, +23°C	**85 / N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**5 / 11**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**220 / ***	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion, parallel	**78 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**78 / ***	E-6/K	ISO 11359-1/-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 / ***	-	-
Oxygen index	**32 / ***	%	ISO 4589-1/-2
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)	**775**	°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			
Electric strength	**10 / -**	kV/mm	IEC 60243-1
Comparative tracking index	**600 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Density	**1170 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	**270**	°C	-
Mold temperature	**80**	°C	-
Injection pressure	**75**	MPa	-

Characteristics

Processing

Injection Molding

Certifications

RoHS compliant

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Delivery form
Natural Color

Applications
Electrical and Electronical

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

Regional Availability
Europe, Asia Pacific

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