Technical Data Sheet

ALCOM WP PC+ABS 5008 TFUV 17009

(Last update: 17.07.2023)

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Filler/Additive System	8 % PTFE,UV stabilised
Special Features	improved sliding / wear
Market Segment	Automotive,Machinery
Application Area	injection moulded parts
Typical Applications	housings,functional components,bearings and sliding elements

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-110 °C for 2-4 h in an air circulating dryer 100-110 °C for 4-8 h dependant on moisture content
Processing Injection Moulding	melt temperature 240-280 °C mould temperature 70-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	68	MPa	ISO 178
Tensile Modulus	2200	MPa	ISO 527
Tensile Stress at Yield	52	MPa	ISO 527
Tensile Elongation at Yield	5	%	ISO 527
Tensile Elongation at Break	50	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	47	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	27	kJ/m²	ISO 179/1eA
Ball Indentation Hardness H358/30	103	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	140	°C	ISO 306
HDT / A (1,8 MPa)	120	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	12	cm³/10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.7 - 0.9	%	ISO 294-4

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Physical Properties			
Density	1220	kg/m³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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