Celanese
The chemistry inside innovation™

CELCON® AF-11

CELCON®

- Aaramid powder-filled wear-resistance grade for general injection molding
- Suitable for parts requiring strong friction and wear resistance, particularly in contact with other plastics

Product information

Resin Identification	POM-Z5		ISO 1043
Part Marking Code	>POM-Z5<		ISO 11469

Rheological properties

Melt mass-flow rate	2	g/10min	ISO 1133
Melt mass-flow rate, Temperature	190	°C	
Melt mass-flow rate, Load	2.16	kg	
Moulding shrinkage, parallel	1.9	%	ISO 294-4, 2577

Typical mechanical properties

Tensile stress at yield, 50mm/min	58	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10	%	ISO 527-1/-2
Nominal strain at break	11	%	ISO 527-1/-2
Flexural modulus	2700	MPa	ISO 178
Flexural strength	83	MPa	ISO 178
Charpy notched impact strength, 23°C	4	kJ/m²	ISO 179/1eA
Poisson's ratio	0.378		

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3

Flammability

Burning Behav. at thickness h	HB	class	IEC 60695-11-10

Electrical properties

Volume resistivity	1E14	Ohm.m	IEC 62631-3-1
Surface resistivity	1E16	Ohm	IEC 62631-3-2

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Density	1400	kg/m³	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	100	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	195	°C
Min. melt temperature	180	°C
Max. melt temperature	210	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	70	°C

Celanese
The chemistry inside innovation™

CELCON® AF-11

CELCON®

Min. mould temperature	60	°C
Max. mould temperature	80	°C
Hold pressure range	60 - 120	MPa

Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Low wear / Low friction

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Hyundai	MS237-09 Type E-1	Pyeongtaek, Korea