



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

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Resin Identification Part Marking Code	POM-Z5 >POM-Z5<		ISO 1043 ISO 11469
Rheological properties			
Melt mass-flow rate	2	g/10min	ISO 1133
Melt mass-flow rate, Temperature	190		
Melt mass-flow rate, Load	2.16	•	
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		ISO 178
Flexural strength		MPa	ISO 178
Charpy notched impact strength, 23°C		kJ/m ²	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	НВ	class	IEC 60695-11-10
Electrical properties			
Volume resistivity	1E14	Ohm.m	IEC 62631-3-1
Surface resistivity	1E16		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		
Min. melt temperature	180		
Max. melt temperature	210		
Screw tangential speed	≤0.3		
Mold Temperature Optimum	70	°C	

Printed: 2025-05-30 Page: 1 of 2

Revised: 2025-01-23 Source: Celanese Materials Database





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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

Printed: 2025-05-30 Page: 2 of 2

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