



Document	ISO Datasheet
Description	PP FR
Grade	DAFNELEN CR 09/K
Code	
Application	Injection Moulding

Unfilled copolymer polypropylene. Flame Retardant grade without halogens.

Properties	Method	Unit	Value
Physical			
Melt flow rate (230°C – 2,16 Kg)	ISO 1133	g/10'	10
Density at 23°C	ISO 1183	g/cm ³	1,02 – 1,05
Mould Shrinkage (%)	INTERNAL	%	1,2 – 1,7
Thermal			
Vicat B50	ISO 306	°C	80
Ball Pressure Test	IEC 60695-10-2	°C	125
HDT, A (1.80 MPa)	ISO 75/Af	°C	60
HDT, B (0.45 MPa)	ISO 75/Af	°C	105
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	1900
Flexural Strength (23°C - 2 mm/min)	ISO 178	MPa	35
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	2000
Tensile stress at break (23°C-50 mm/min)	ISO 527-2	%	20
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	>20
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	3,5
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m ²	3,5
Rockwell hardness (R scale)	ISO 2039-2		20
Flammability			
Glow Wire Flammability Index GWFI (1,0 mm)	IEC 60695-2-12	°C	960
Glow Wire Flammability Index GWFI (3,0 mm)	IEC 60695-2-12	°C	960
GlowWire Ignition Temperature GWIT (1,0 mm)	IEC 60695-2-13	°C	775
GlowWire Ignition Temperature GWIT (3,0 mm)	IEC 60695-2-13	°C	775
Flammability class (0,8 mm)	UL94		V0

Flammability class (1,6 mm)	UL94		V0
Flammability class (3,2 mm)	UL94		V0
Flammability class V0-5VA (1,7 mm)	UL94		V0-5VA
Electrical			
Comparative tracking index CTI	IEC 60112	V	600
Processing Conditions			
Melt Temperature Range	ISO 294	°C	180-220
Mold Temperature Range	ISO 294	°C	40-60
Injection Velocity	ISO 294		MEDIUM
Drying Temperature		°C	70-80
Drying Time		Hour	0,5-2
Regulations compliance			
RoHS compliance status:	COMPLIANT		
EN71:			
UL listed file n°:	QMFZ2.E220931		
Water contact approvals.			
Food contact status:			

§ Moulding shrinkage is not an intrinsic property of plastics. It also depends on moulding parameters. The values reported have been calculated in the direction parallel to the flow in a 4.0 x 10.0 x 170 mm sample.

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Sirmax s.p.a.

E.A.R. N° 91334
P.IVA 00168180248
sirmax@sirmax.com

Group Headquarter:

Viale dell'Artigianato, 42
35013 Cittadella (PD) – Italy
Tel. +39 049 9441111 – Fax +39 049 9441112