

Witcom POM-C 2A/2C/2L1

Acetal (POM) Copolymer

Witcom Engineering Plastics B.V.

Message:

Witcom POM-C 2A/2C/2L1 is a polyoxymethylene (POM) copolymer product, which contains 10% aramid fibers and 10% carbon fiber reinforced materials. It can be processed by injection molding and is available in Europe.

Features include:
flame retardant/rated flame
Copolymer
Lubrication

General Information			
Filler / Reinforcement	Aramid fiber, 10% filler by weight		
	Carbon fiber reinforced material, 10% filler by weight		
Additive	PTFE lubricant (10%)		
Features	Copolymer		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.90 - 1.9	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.80	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 65.0	MPa	ISO 527-2/50
Tensile Strain (Break)	2.0 - 6.0	%	ISO 527-2/50
Flexural Modulus	3800	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	8.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
CLTE - Flow	4.0E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	95.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+5	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating (3.00 mm)	HB	ISO 1210
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 - 3.0	hr
Suggested Max Moisture	0.050	%
Processing (Melt) Temp	170 - 210	°C
Mold Temperature	50.0 - 120	°C
Injection Rate	Fast	
Back Pressure	0.00 - 0.500	MPa
Injection instructions		

Screw speed: 0.1 - 0.2 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

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