

MAJORIS PC 9381 10 FV

Polycarbonate

AD majoris

Message:

PC 9381 10 FV is a medium viscosity polycarbonate (PC) resin and contains flame retardant agent, intended for injection moulding. The product is available in natural (PC 9381 10 FV) but other colours can be provided on request

They combine high mechanical requiring rigidity, thermal and electrical properties with excellent chemical resistance and dimensional stability

APPLICATIONS

PC 9381 10 FV is intended for the injection moulding of electrical components and mechanical systems, such as:

Electrical appliance components

Lighting system

Technical parts

General Information			
Features	Good dimensional stability Rigidity, high Good electrical performance Good chemical resistance Medium viscosity Flame retardancy		
Uses	Electrical components Home appliance components Lighting device		
Appearance	Available colors Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	13.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.20 - 0.50	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.31	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	3400	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	55.0	MPa	ISO 527-2/50
Tensile Strain (Break, Injection Molded)	6.0	%	ISO 527-2/50
Flexural Modulus ¹ (Injection Molded)	3500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179/1A

Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	141	°C	ISO 75-2/B
1.8 MPa, not annealed	133	°C	ISO 75-2/A
Vicat Softening Temperature	142	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index	34	%	ISO 4589-2
Additional Information			
Ball Pressure Test, IEC 60695-10-2, 125°C: PassesMelt Volume-Flow Rate, ISO 1183, 300°C/1.2Kg: 10 to 16 g/10min			
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	290 - 310	°C	
Mold Temperature	80.0 - 120	°C	
Injection Rate	Fast		
NOTE			
1.	2.0 mm/min		

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