

MALEX 01EN002 - 5383

Polycarbonate
AD majoris

Message:

MALEX 01EN002 - 5383 is a medium viscosity polycarbonate (PC) resin and contains a release agent to ensure easy processing, intended for injection moulding. The product is available in bordeaux (MALEX 01EN002 - 5383) but other colours can be provided on request
They combine high mechanical, thermal and electrical properties with excellent chemical resistance and dimensional stability

APPLICATIONS

MALEX 01EN002 - 5383 is intended for the injection moulding of electrical components and automotive applications including interior, and electrical and mechanical systems, such as:

Electrical appliance components
Dashboard components
Lighting system

General Information			
Additive	Mold Release		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Mold Release		
	Good Processability		
	Medium Viscosity		
	Recyclable Material		
Uses	Appliance Components		
	Automotive Electronics		
	Automotive Interior Parts		
	Electrical Parts		
	Lighting Applications		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (Saturation, 23°C)	0.35	%	DIN 53495
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2/1
Tensile Stress (Yield)	63.0	MPa	ISO 527-2/50
Tensile Strain (Break)	70	%	ISO 527-2/50
Flexural Modulus ¹	2300	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	70	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	136	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	°C	ISO 75-2/A
Vicat Softening Temperature			
--	141	°C	ISO 306/B50
--	142	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+17	ohms · cm	IEC 60093
	17		
	27		
Electric Strength (0.800 mm, in Oil)	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.70		
1 MHz	2.70		
Dissipation Factor			IEC 60250
50 Hz	1.0E-3		
1 MHz	0.010		
Arc Resistance	119	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Glow Wire Flammability Index (1.00 mm)	850	°C	IEC 60695-2-12
Oxygen Index	25	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Fast		
Back Pressure	0.500 to 1.00	MPa	
NOTE			
1.	2.0 mm/min		

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