

MALEX 01DFR007 - 1367

Polycarbonate
AD majoris

Message:

MALEX 01DFR007 - 1367 is a medium viscosity polycarbonate (PC) resin and contains flame retardant agent (UL 94 V0) intended for injection moulding. The product is available in white (MALEX 01DFR007 - 1367) 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. This product is light stabilized.

APPLICATIONS

MALEX 01DFR007 - 1367 is intended for the injection moulding of electrical components and mechanical systems, such as:
Electrical appliance components
Lighting system
Technical parts

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	High Rigidity		
	Light Stabilized		
	Medium Viscosity		
	Recyclable Material		
Uses	Appliance Components		
	Electrical Parts		
	Lighting Applications		
Appearance	Colors Available		
	White		
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)	10	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)	100	%	ISO 527-2/50

Flexural Modulus ¹	2300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
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
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+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-2		
3.00 mm	V-0		
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index	35	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	290 to 310	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Fast		
NOTE			
1.	2.0 mm/min		

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