

MALEX 01EFR002 - 4229

Polycarbonate

AD majoris

Message:

MALEX 01EFR002 - 4229 is a medium viscosity polycarbonate (PC) resin (UL94 V2) and contains a release agent to ensure easy processing, intended for injection moulding. The product is available in black (MALEX 01EFR002 - 8229) 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

MALEX 01EFR002 - 4229 is intended for the injection moulding of electrical components and mechanical systems, such as:

Electrical appliance components

Lighting system

Technical parts

General Information			
Additive	Mold Release		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Mold Release		
	Good Processability		
	High Rigidity		
	Medium Viscosity		
	Recyclable Material		
Uses	Appliance Components		
	Electrical Parts		
	Lighting Applications		
Appearance	Black		
	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)	12	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)	110	%	ISO 527-2/50

Flexural Modulus ¹	2300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	73	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
0.750 mm	V-2		
6.00 mm	V-0		
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 310	°C	
Mold Temperature	80.0 to 110	°C	
Injection Rate	Fast		
NOTE			
1.	2.0 mm/min		

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