

Makroblend® M525

Polycarbonate + PBT

Covestro - Polycarbonates

Message:

(PC+PBT) Blend, impact modified, easy release, injection molding grade. Makroblend M525 offers an exceptional low-temperature impact strength, good flowability and excellent chemical resistance. Manufactured according to GMP, tested only according to ISO 10993-5 and ISO 10993-10 for contact with uncompromised skin only; for questions regarding biocompatibility we ask for an email inquiry under plastics@bayer.com.

General Information			
Additive	Impact Modifier		
Features	Good Chemical Resistance		
	Good Flow		
	Impact Modified		
	Low Temperature Impact Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.22	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	21.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow ¹	0.70 to 0.90	%	
Across Flow : 90°C, 1 hr	0.10 to 0.20	%	
Flow ²	0.70 to 0.90	%	
Flow : 90°C, 1 hr	0.10 to 0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	55.0	MPa	
Break, 23°C	45.0	MPa	
Tensile Strain (Yield, 23°C)	4.5	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 50	%	ISO 527-2/50
Flexural Modulus ³ (23°C)	2000	MPa	ISO 178
Flexural Stress ⁴ (3.5% Strain, 23°C)	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-20°C	45	kJ/m ²	
23°C	60	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	°C	ISO 75-2/A
Vicat Softening Temperature	122	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	9.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	9.0E-5	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity (23°C)	> 1.0E+16	ohms·cm	IEC 60093
Comparative Tracking Index			IEC 60112
Solution A	225	V	
Solution B	100	V	

NOTE

1.	600 bar
2.	600 bar
3.	2.0 mm/min
4.	2.0 mm/min

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