

Makroblend® UT403

Polycarbonate + PET

Covestro - Polycarbonates

Message:

(PC+PET) blend, unreinforced; UV-stabilized; impact modified; high flow; injection molding grade. Good impact strength, dimensional stability and chemical resistance. UL746C f1 rated.

General Information			
Additive	Impact Modifier		
	UV Stabilizer		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	High Flow		
	Impact Modified		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.23	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (270°C/5.0 kg)	34.0	cm³/10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow	0.60 to 0.80	%	
Flow	0.60 to 0.80	%	
Water Absorption			ISO 62
Saturation, 23°C	0.50	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	58.0	MPa	
Break, 23°C	58.0	MPa	
Tensile Strain (Yield, 23°C)	5.0	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	100	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2300	MPa	ISO 178
Flexural Stress ³			ISO 178
23°C	86.0	MPa	
3.5% Strain,23°C	72.0	MPa	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁴			ISO 7391
-30°C	20	kJ/m ²	
23°C	70	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	124	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
Vicat Softening Temperature	139	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	7.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	8.0E-5	cm/cm/°C	
Thermal Conductivity ⁵ (23°C)	0.20	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+16	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	34	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.20		
23°C, 1 MHz	3.10		
Dissipation Factor			IEC 60250
23°C, 100 Hz	1.7E-3		
23°C, 1 MHz	0.015		
Comparative Tracking Index (Solution A)	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
NOTE			
1.	600 bar		
2.	2.0 mm/min		
3.	2.0 mm/min		
4.	Based on ISO 180-A, 3 mm		
5.	Cross-flow		

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