

Makroblend® UT4045 G

Polycarbonate + PBT

Covestro - Polycarbonates

Message:

(PC+PBT)-blend, 20% Glass fiber reinforced, easy release, injection molding. Makroblend UT4045G offers a high stiffness, excellent chemical resistance, good flowability and exceptional dimensional stability.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Flow		
	Good Mold Release		
	High Stiffness		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.40	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	30.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow ¹	0.20 to 0.60	%	
Across Flow : 90°C, 1 hr	< 0.10	%	
Flow ²	0.20 to 0.60	%	
Flow : 90°C, 1 hr	< 0.10	%	
Across Flow : 260°C, 3.00 mm ³	0.50 to 0.70	%	
Flow : 260°C, 3.00 mm ⁴	0.20 to 0.40	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	90.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6500	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield, 23°C	100	MPa	
Break, 23°C	100	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	3.0	%	
Break, 23°C	3.0	%	
Nominal Tensile Strain at Break (23°C)	3.0	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	6100	MPa	ISO 178
Flexural Stress ⁶ (23°C)	160	MPa	ISO 178

Flexural Strain at Flexural Strength ⁷ (23°C)	3.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	40	kJ/m ²	
23°C	45	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	6.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180
-30°C	35	kJ/m ²	
23°C	40	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B120
NOTE			
1.	600 bar		
2.	600 bar		
3.	150x105x3 mm, 80°C MT, 600 bar		
4.	150x105x3 mm, 80°C MT, 600 bar		
5.	2.0 mm/min		
6.	2.0 mm/min		
7.	2 mm/min		

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