

Makroblend® KU2-7609

Polycarbonate + PBT

Covestro - Polycarbonates

Message:

(PC+PBT)-blend, impact modified, Injection molding grade, 20% mineral filled

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Additive	Impact Modifier		
Features	Impact Modified		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.30	g/cm ³	ISO 1183
Apparent Density	0.70	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	11.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow ¹	0.40 to 0.60	%	
Across Flow : 90°C, 1 hr	0.10 to 0.20	%	
Flow ²	0.40 to 0.60	%	
Flow : 90°C, 1 hr	0.10 to 0.20	%	
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.20	%	
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)	3400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield, 23°C	50.0	MPa	
Break, 23°C	50.0	MPa	
Tensile Strain (Yield, 23°C)	3.0	%	ISO 527-2/5
Flexural Modulus ³ (23°C)	3400	MPa	ISO 178
Flexural Stress ⁴			ISO 178
23°C	75.0	MPa	
3.5% Strain,23°C	73.0	MPa	
Flexural Strain at Flexural Strength ⁵ (23°C)	5.0	%	ISO 178
Burning Rate - US-FMVSS (> 1.00 mm)	passed		ISO 3795
Electrolytical Corrosion (23°C)	A1		IEC 60426

ISO Shortname	ISO 7792-1-PC/PBT,MHPR,-030,MD 20		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	20	kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength (23°C)	160	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	106	°C	ISO 75-2/B
1.8 MPa, Unannealed	93.0	°C	ISO 75-2/A
Vicat Softening Temperature	120	°C	ISO 306/B120
Melting Temperature ⁶	221	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	7.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	7.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+17	ohms	IEC 60093
Volume Resistivity (23°C)	> 1.0E+17	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	2.6E-3		
23°C, 1 MHz	9.5E-3		
Comparative Tracking Index			IEC 60112
Solution A	250	V	
Solution B	125	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.60 mm	HB		
Glow Wire Flammability Index (2.00 mm)	800	°C	IEC 60695-2-12
Oxygen Index ⁷	21	%	ISO 4589-2
NOTE			
1.	600 bar		
2.	600 bar		
3.	2.0 mm/min		
4.	2.0 mm/min		
5.	2 mm/min		
6.	10°C/min		
7.	Procedure A		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

