

Makroblend® KU2-7609

Polycarbonate + PBT

Covestro - Polycarbonates

PROSPECTOR®

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Technical Data

Product Description

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

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (Chinese (Traditional)) • Technical Datasheet (Chinese) • Technical Datasheet (English) • Technical Datasheet (German) • Technical Datasheet (Japanese)
Search for UL Yellow Card	• Covestro - Polycarbonates • Makroblend®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Mineral, 20% Filler by Weight
Additive	• Impact Modifier
Features	• Impact Modified
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density (73°F (23°C))	1.30 g/cm ³	1.30 g/cm ³	ISO 1183
Apparent Density	0.70 g/cm ³	0.70 g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	0.671 in ³ /10min	11.0 cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow ³	0.40 to 0.60 %	0.40 to 0.60 %	
Across Flow : 194°F (90°C), 1 hr	0.10 to 0.20 %	0.10 to 0.20 %	
Flow ³	0.40 to 0.60 %	0.40 to 0.60 %	
Flow : 194°F (90°C), 1 hr	0.10 to 0.20 %	0.10 to 0.20 %	
Water Absorption			ISO 62
Saturation, 73°F (23°C)	0.80 %	0.80 %	
Equilibrium, 73°F (23°C), 50% RH	0.20 %	0.20 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	493000 psi	3400 MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield, 73°F (23°C)	7250 psi	50.0 MPa	
Break, 73°F (23°C)	7250 psi	50.0 MPa	
Tensile Strain (Yield, 73°F (23°C))	3.0 %	3.0 %	ISO 527-2/5
Flexural Modulus ⁴ (73°F (23°C))	493000 psi	3400 MPa	ISO 178
Flexural Stress ⁴			ISO 178
3.5% Strain, 73°F (23°C)	10600 psi	73.0 MPa	
73°F (23°C)	10900 psi	75.0 MPa	
Flexural Strain at Flexural Strength ⁵			ISO 178
73°F (23°C)	5.0 %	5.0 %	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	9.5 ft·lb/in ²	20 kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength (73°F (23°C))	76 ft·lb/in ²	160 kJ/m ²	ISO 180

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness	13100 psi	90.0 MPa	ISO 2039-1



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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	223 °F	106 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	199 °F	93.0 °C	ISO 75-2/A
Vicat Softening Temperature	246 °F	119 °C	ISO 306/B120
Melting Temperature ⁶	430 °F	221 °C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 73 to 131°F (23 to 55°C)	3.9E-5 in/in/°F	7.0E-5 cm/cm/°C	
Transverse : 73 to 131°F (23 to 55°C)	3.9E-5 in/in/°F	7.0E-5 cm/cm/°C	
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+17 ohms	> 1.0E+17 ohms	IEC 60093
Volume Resistivity (73°F (23°C))	> 1.0E+17 ohms·cm	> 1.0E+17 ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
73°F (23°C), 0.0394 in (1.00 mm)	860 V/mil	34 kV/mm	
Relative Permittivity			IEC 60250
73°F (23°C), 100 Hz	3.20	3.20	
73°F (23°C), 1 MHz	3.10	3.10	
Dissipation Factor			IEC 60250
73°F (23°C), 100 Hz	2.6E-3	2.6E-3	
73°F (23°C), 1 MHz	9.5E-3	9.5E-3	
Comparative Tracking Index			IEC 60112
Solution A	250 V	250 V	
Solution B	125 V	125 V	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.0 mm)	1470 °F	800 °C	
Oxygen Index ⁷	21 %	21 %	ISO 4589-2
Burning Rate - US-FMVSS (> 39.4 mil (> 1.00 mm))	passed	passed	ISO 3795
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Electrolytical Corrosion (73°F (23°C))	A1	A1	IEC 60426
ISO Shortname	ISO 7792-1- PC/PBT,MHPR,- 030,MD 20	ISO 7792-1- PC/PBT,MHPR,- 030,MD 20	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 600 bar

⁴ 0.079 in/min (2.0 mm/min)

⁵ 2 mm/min

⁶ 10 °C/min

⁷ Procedure A



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Where to Buy

Supplier

Covestro - Polycarbonates

Leverkusen, Germany

Telephone: +49-214-6009-2000

Web: <http://www.plastics.covestro.com/>

Distributor

ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.

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PolyOne Distribution

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