

# Makroblend® DP 7665

Polycarbonate + PET

Covestro - Polycarbonates

PROSPECTOR®

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## Technical Data

### Product Description

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

### General

Material Status	• Experimental: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (Chinese (Traditional))</a> • <a href="#">Technical Datasheet (Chinese)</a> • <a href="#">Technical Datasheet (English)</a> • <a href="#">Technical Datasheet (German)</a> • <a href="#">Technical Datasheet (Japanese)</a>
Search for UL Yellow Card	• <a href="#">Covestro - Polycarbonates</a> • <a href="#">Makroblend®</a>
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))	1.35 g/cm <sup>3</sup>	1.35 g/cm <sup>3</sup>	ISO 1183
Apparent Density	0.70 g/cm <sup>3</sup>	0.70 g/cm <sup>3</sup>	ISO 60
Melt Volume-Flow Rate (MVR) (270°C/5.0 kg)	0.854 in <sup>3</sup> /10min	14.0 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow <sup>3</sup>	0.50 to 0.70 %	0.50 to 0.70 %	
Across Flow : 194°F (90°C), 1 hr	0.10 to 0.20 %	0.10 to 0.20 %	
Flow <sup>3</sup>	0.50 to 0.70 %	0.50 to 0.70 %	
Flow : 194°F (90°C), 1 hr	0.10 to 0.20 %	0.10 to 0.20 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	609000 psi	4200 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

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	4.3 ft·lb/in <sup>2</sup>	9.0 kJ/m <sup>2</sup>	ISO 180/A
Unnotched Izod Impact Strength			ISO 180
-22°F (-30°C)	29 ft·lb/in <sup>2</sup>	60 kJ/m <sup>2</sup>	
73°F (23°C)	40 ft·lb/in <sup>2</sup>	85 kJ/m <sup>2</sup>	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness	13800 psi	95.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	266 °F	130 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	234 °F	112 °C	ISO 75-2/A
Vicat Softening Temperature	275 °F	135 °C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 73 to 131°F (23 to 55°C)	2.8E-5 in/in/°F	5.0E-5 cm/cm/°C	
Transverse : 73 to 131°F (23 to 55°C)	2.8E-5 in/in/°F	5.0E-5 cm/cm/°C	



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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 73°F (23°C), 0.0394 in (1.00 mm)	1000 V/mil	40 kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
73°F (23°C), 100 Hz	3.70	3.70	
73°F (23°C), 1 MHz	3.50	3.50	
Dissipation Factor			IEC 60250
73°F (23°C), 100 Hz	5.0E-3	5.0E-3	
73°F (23°C), 1 MHz	0.020	0.020	
Comparative Tracking Index			IEC 60112
Solution A	300 V	300 V	
Solution B	100 V	100 V	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
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/PET,MHPR,- 030,MD20	ISO 7792-1- PC/PET,MHPR,- 030,MD20	

## Notes

<sup>1</sup> 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.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 600 bar



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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.*

Telephone: +49-40-78105-0

Web: <http://www.albis.com/>

Availability: Algeria, Austria, Belgium, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hong Kong, Hungary, Ireland, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Slovakia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom

##### Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

##### M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

##### M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

##### PolyOne Distribution

*PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.*

Telephone: 800-894-4266

Web: <http://polyonedistribution.com/>

Availability: Global

