

Technical Data

Product Description

MVR (330°C/2.16kg) 18 cm³/10 min; easy release; 'softening temperature (VST/B 120)=183°C; easy-flowing; injection molding - melt temperature 330 - 340°C; Visors for firemen's helmets

General

Material Status	• Commercial: Active		
Literature ¹	<ul style="list-style-type: none"> • Technical Datasheet (Chinese (Traditional)) • Technical Datasheet (Chinese) • Technical Datasheet (English) • Technical Datasheet (German) • Technical Datasheet (Japanese) 		
UL Yellow Card ²	• E41613-100868618		
Search for UL Yellow Card	<ul style="list-style-type: none"> • Covestro - Polycarbonates • Apec® 		
Availability	<ul style="list-style-type: none"> • Africa & Middle East • Asia Pacific 	<ul style="list-style-type: none"> • Europe • Latin America 	<ul style="list-style-type: none"> • North America
Additive	• Flame Retardant		
Features	• Flame Retardant	• Good Flow	• Good Mold Release
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density (23°C)	1.15 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (330°C/2.16 kg)	19 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (330°C/2.16 kg)	18.0 cm³/10min	ISO 1133
Water Absorption		ISO 62
Saturation, 23°C	0.30 %	
Equilibrium, 23°C, 50% RH	0.12 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	2450 MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	74.0 MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	6.6 %	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 50 %	ISO 527-2/50

Impact	Nominal Value Unit	Test Method
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	No Break	
23°C	No Break	

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	173 °C	ISO 75-2/B
1.8 MPa, Unannealed	158 °C	ISO 75-2/A
Vicat Softening Temperature	183 °C	ISO 306/B120
CLTE		ISO 11359-2
Flow : 23 to 55°C	6.5E-5 cm/cm/°C	
Transverse : 23 to 55°C	6.5E-5 cm/cm/°C	

Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+15 ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+16 ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	35 kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250
23°C, 100 Hz	2.90	
23°C, 1 MHz	2.80	



Electrical	Nominal Value Unit	Test Method
Dissipation Factor		IEC 60250
23°C, 100 Hz	1.0E-3	
23°C, 1 MHz	8.0E-3	
Comparative Tracking Index		IEC 60112
Solution A	225 V	
Solution B	100 V	
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.5 mm	V-2	
3.0 mm	V-0	
Optical	Nominal Value Unit	Test Method
Refractive Index ⁴	1.573	ISO 489
Transmittance (1000 µm)	89.0 %	ISO 13468-2
Additional Information	Nominal Value Unit	Test Method
Electrolytical Corrosion (23°C)	A1	IEC 60426

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 A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ Method A



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