Makrolon® DQ 5962 FR

PC — Covestro Deutschland AG

Product Texts

Luminous transmittance (1,0 mm): 67 % (ISO 13468-2)
Luminous transmittance (2,0 mm): 54 % (ISO 13468-2)
Luminous transmittance (3,0 mm): 46 % (ISO 13468-2)
Luminous transmittance (4,0 mm): 41% (ISO 13468-2)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**5**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2300**	MPa	ISO 527
Yield stress	**64**	MPa	ISO 527
Yield strain	**6**	%	ISO 527
Nominal strain at break	**42**	%	ISO 527
Stress at break	**52**	MPa	ISO 527
Strain at break	**73**	%	ISO 527
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**N**	kJ/m²	ISO 179/1eU
Izod notched impact strength, +23°C	**12**	kJ/m²	ISO 180/1A
Ball indentation hardness	**120**	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**123**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**138**	°C	ISO 75-1/-2
Vicat softening temperature, B	**144**	°C	ISO 306
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
Burning behav. 5V at thickness h	**5VA**	class	IEC 60695-11-20
Thickness tested	**3.0**	mm	-
Glow Wire Flammability Index (GWFI)	**960**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**0.75**	mm	-
Glow Wire Flammability Index (GWFI)	**960**	°C	IEC 60695-2-12
GWFI - thickness tested (2)	**1.5**	mm	-
Glow Wire Flammability Index (GWFI)	**960**	°C	IEC 60695-2-12
GWFI - thickness tested (3)	**3**	mm	-
Glow Wire Ignition Temperature (GWIT)	**850**	°C	IEC 60695-2-13
GWIT - thickness tested (1)	**0.75**	mm	-
Glow Wire Ignition Temperature (GWIT)	**850**	°C	IEC 60695-2-13
GWIT - thickness tested (2)	**1.5**	mm	-
Glow Wire Ignition Temperature (GWIT)	**850**	°C	IEC 60695-2-13
GWIT - thickness tested (3)	**3**	mm	-

Optical properties	Value	Unit	Test Standard
ISO Data			
Luminous transmittance	**67**[1]	%	ISO 13468-1, -2

1: 1,0 mm

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**280 - 320**	°C	-

Mold temperature	**80**	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**280 - 320**	°C	-

Characteristics

Processing
Injection Molding, Other Extrusion

Features
Light Diffusing

Special Characteristics
Flame retardant, U.V. stabilized or stable to weather

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa