Makrolon® DQ5662 ET

PC — Covestro Deutschland AG

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**6**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
Molding shrinkage, parallel	**0.7**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.8**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2400**	MPa	ISO 527
Yield stress	**66**	MPa	ISO 527
Yield strain	**6**	%	ISO 527
Nominal strain at break	**>50**	%	ISO 527
Stress at break	**70**	MPa	ISO 527
Strain at break	**125**	%	ISO 527
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**12**	kJ/m²	ISO 179/1eA
Type of failure	**C**	-	-
Puncture - maximum force, +23°C	**5000**	N	ISO 6603-2
Puncture - maximum force, -30°C	**6000**	N	ISO 6603-2
Puncture energy, +23°C	**50**	J	ISO 6603-2
Puncture energy, -30°C	**55**	J	ISO 6603-2
Ball indentation hardness	**115**	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**121**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**136**	°C	ISO 75-1/-2
Vicat softening temperature, B	**143**	°C	ISO 306

Optical properties	Value	Unit	Test Standard
ISO Data			
Haze	**100**	-	ISO 14782
Luminous transmittance	**68**	%	ISO 13468-1, -2

Other properties	Value	Unit	Test Standard
Density	**1200**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**300**	°C	-
Mold temperature	**80**	°C	-
Injection speed	**200**	mm/s	-

Characteristics

Processing

Injection Molding, Profile Extrusion, Sheet Extrusion, Other Extrusion

Additives

Release agent

Features

Light Diffusing

Regional Availability

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

Special Characteristics

U.V. stabilized or stable to weather, Translucent