



Makrolon® AX2675 ST

PC

Covestro Deutschland AG

- Automotive eXterior grade with specified Sensor signal Transparency
- MVR (300 °C/1.2 kg) 12 cm³/10 min
- medium viscosity
- easy release
- developed for high-gloss surfaces with highest requirements
- for the use in combination with hard coatings
- for high transmittance applications in the near-infrared range (NIR)

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	12	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
Melt Flow Index, MFI	13	g/10min	ISO 1133
MFI temperature	300	°C	-
MFI load	1.2	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	65	MPa	ISO 527
Yield strain	6	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Impact Strength (Charpy), +23 °C	no break	kJ/m²	ISO 179/1eU
Puncture - maximum force, +23 °C	5200	N	ISO 6603-2
Puncture - maximum force, -30 °C	6100	N	ISO 6603-2
Puncture energy, +23 °C	55	J	ISO 6603-2
Puncture energy, -30 °C	60	J	ISO 6603-2
Flexural Modulus (23 °C)	2400	MPa	ISO 178
Flexural strength	98	MPa	ISO 178
Notched Impact Strength (Izod), 23 °C	70	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	14	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Ball Indentation Hardness	115	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Glass Transition Temperature (10 °C/min)	143	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	124	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	136	°C	ISO 75-1/-2
Vicat softening temperature, 50 °C/h 50N	143	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	65	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	65	E-6/K	ISO 11359-1/-2

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.1	-	IEC 62631-2-1
Relative permittivity, 1MHz	3	-	IEC 62631-2-1
Dissipation Factor, 100Hz	5	E-4	IEC 62631-2-1
Dissipation Factor, 1MHz	90	E-4	IEC 62631-2-1
Volume Resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface Resistivity	>1E15	Ohm	IEC 62631-3-2
Electric Strength	34	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1200	kg/m³	ISO 1183

Makrolon® AX2675 ST

PC

Covestro Deutschland AG

Bulk density	660	kg/m³	-
--------------	-----	-------	---

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	290	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 320	°C	-
Mold temperature	70 - 110	°C	-
Zone 1	250 - 270	°C	-
Zone 2	270 - 290	°C	-
Zone 3	285 - 305	°C	-
Nozzle temperature	270 - 305	°C	-
Back pressure	5 - 15	MPa	-

Characteristics

Processing

Injection Molding

Features

High Gloss

Delivery form

Pellets, Black

Applications

Automotive

Additives

Release agent