



Makrolon® Ai2497 ST

PC

Covestro Deutschland AG

- Automotive interior grade with specified sensor signal transparency
- MVR (300 °C/1.2 kg) 19 cm³/10 min
- medium viscosity
- easy release
- UV stabilized
- developed for high-gloss surfaces with highest requirements

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	19	cm³/10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577

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
Flexural Modulus (23 °C)	2350	MPa	ISO 178
Flexural strength	98	MPa	ISO 178
Notched Impact Strength (Izod), 23 °C	60	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	12	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Ball Indentation Hardness	116	MPa	ISO 2039-1

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Light Transmittance	88	%	ASTM D 1003

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	280	°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	-
Melt temperature	280	°C	-
Mold temperature	80	°C	-
Injection speed	200	mm/s	-

Characteristics

Processing

Injection Molding

Additives

Release agent

Special Characteristics

UV stabilized, Transparent

Features

High Gloss

Applications

Automotive