

**Makrolon® Ai2617**

 Covestro - Polycarbonates - *Polycarbonate*
**General Information**
**Product Description**

 MVR (300 °C/1.2 kg) 12 cm<sup>3</sup>/10 min; medium viscosity; easy release; UV stabilized; injection molding - melt temperature 280 - 320 °C; available in clear transparent colors; Automotive interior; developed for high-gloss surfaces with highest requirements

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• UV Stabilizer		
Features	• Good Mold Release	• High Gloss	• UV Stabilized
Uses	• Automotive Applications	• Automotive Interior Parts	
Appearance	• Colors Available	• Translucent	
Processing Method	• Injection Molding		
ISO Designation	• PC		

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.20	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ISO 1133
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	0.70	%	
Flow : 0.0787 in	0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	348000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	9430	psi	ISO 527-2/50
Tensile Stress (Break, 73°F)	9430	psi	ISO 527-2/50
Tensile Strain (Yield, 73°F)	6.0	%	ISO 527-2/50
Tensile Strain (Break, 73°F)	120	%	ISO 527-2/50
Nominal Tensile Strain at Break (73°F)	> 50	%	ISO 527-2/50
Flexural Modulus <sup>3</sup> (73°F)	341000	psi	ISO 178
Flexural Stress <sup>3</sup>			ISO 178
73°F	14200	psi	
3.5% Strain, 73°F	10700	psi	
Flexural Strain at Flexural Strength <sup>4</sup> (73°F)	7.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		
Notched Izod Impact Strength <sup>5</sup>			ISO 180/A
-22°F, Complete Break	7.1	ft·lb/in <sup>2</sup>	
73°F, Partial Break	29	ft·lb/in <sup>2</sup>	
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-22°F	47.9	ft·lb	
73°F	44.3	ft·lb	
Multi-Axial Instrumented Impact Peak Force			ISO 6603-2
-22°F	1420	lbf	
73°F	1210	lbf	
Hardness	Nominal Value	Unit	Test Method



Ball Indentation Hardness	16700 psi	ISO 2039-1
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>
Deflection Temperature Under Load (66 psi, Unannealed)	277 °F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	253 °F	ISO 75-2/A
Vicat Softening Temperature		
--	293 °F	ISO 306/B120
--	289 °F	ISO 306/B50

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60x60x2mm, 500 bar

<sup>3</sup> 0.079 in/min

<sup>4</sup> 2.0 mm/min

<sup>5</sup> 3.0 mm

