

Makrolon® AX2475

 Covestro - Polycarbonates - *Polycarbonate*

General Information

Product Description

MVR (300 °C/1.2 kg) 19 cm³/10 min; low viscosity; easy release; injection molding; developed for high-gloss surfaces with highest requirements; for the use in combination with hard coatings

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• High Gloss	• Low Viscosity	
Processing Method	• Injection Molding		
ISO Designation	• PC		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	19	g/10 min	ISO 1133
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.70	%	
Flow : 0.0787 in	0.65	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	348000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	9570	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 ³ (73°F)	341000	psi	ISO 178
Flexural Stress ³ (73°F)	14200	psi	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 ⁴			ISO 180/A
-22°F, Complete Break	5.7	ft·lb/in²	
73°F, Partial Break	29	ft·lb/in²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	277	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	255	°F	ISO 75-2/A
Vicat Softening Temperature			
--	289	°F	ISO 306/B120
--	286	°F	ISO 306/B50
CLTE - Flow (73 to 131°F)	3.6E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F)	3.6E-5	in/in/°F	ISO 11359-2

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60x60x2mm, 500 bar

³ 0.079 in/min

⁴ 3.0 mm
