

Bayblend® W90 XG

Acrylonitrile Styrene Acrylate + PC

Covestro - Polycarbonates

Message:

PC+ASA-Blend; Vicat/B 120 temperature = 115°C; UV-stabilized; very good surface finish

General Information			
UL YellowCard	E41613-102751478		
Additive	UV stabilizer		
Features	Excellent appearance		
RoHS Compliance	RoHS compliance		
Resin ID (ISO 1043)	PC+ASA		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.14	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	34.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Transverse flow: 2.00mm	0.50 - 0.70	%	ISO 2577
Flow: 2.00mm	0.50 - 0.70	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2830	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	65.0	MPa	ISO 527-2/50
Fracture, 23°C	50.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.0	%	ISO 527-2/50
Fracture, 23°C	50	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2840	MPa	ISO 178
Flexural Stress ³ (3.5% Strain, 23°C)	85.0	MPa	ISO 178
Flexural Strain at Flexural Strength ⁴ (23°C)	5.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/A
-30°C	7.0	kJ/m ²	ISO 180/A
23°C	14	kJ/m ²	ISO 180/A
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-30°C	20.0	J	ISO 6603-2
23°C	45.0	J	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force			ISO 6603-2
-30°C	4250	N	ISO 6603-2
23°C	4800	N	ISO 6603-2

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	112	°C	ISO 75-2/B
1.8 MPa, not annealed	93.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	113	°C	ISO 306/B50
--	115	°C	ISO 306/B120
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	7.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	7.0E-5	cm/cm/°C	ISO 11359-2

NOTE

1. 60x60x2 mm
2. 2.0 mm/min
3. 2.0 mm/min
4. 2 mm/min

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