

ALCOM® AWL 109/10 GF20 WT1142-12LB

Polycarbonate + ABS

ALBIS PLASTIC GmbH

Message:

ALCOM®AWL 109/10 GF20 WT1142-12LB is a polycarbonate + acrylonitrile butadiene styrene (PC + ABS) product, which contains 20% glass fiber reinforcement. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. ALCOM®AWL 109/10 GF20 WT1142-12LB applications include mirrors, automotive industry and lighting equipment.

Features include:

Comply with REACH standard

ROHS certification

High stiffness

heat stabilizer

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
Features	High reflectivity		
	Rigidity, high		
	Thermal Stability		
Uses	Lighting Applications		
	Reflector		
	Application in Automobile Field		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Opacity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (240°C/5.0 kg)	8.00	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5200	MPa	ISO 527-2
Tensile Stress (Yield)	68.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	6500	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	17	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	112	°C	ISO 306/B50

Flammability	Nominal Value		Test Method
Fire Behavior, FMVSS (2.00 mm)	passed		ISO 37
Tristimulus Value			
Y10 of Reflection	82	%	DIN 5033
Y10 of Transmission : 500.0 μm	0.20	%	ISO 13468
Injection	Nominal Value	Unit	
Drying Temperature			
Dehumidification desiccant	80 - 90	°C	
Hot air dryer	80 - 90	°C	
Drying Time			
Dehumidification desiccant	3.0 - 6.0	hr	
Hot air dryer	2.0 - 4.0	hr	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	60 - 80	°C	

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