

ALCOM® AWL 109/15 WT1217-11LB

Polycarbonate + ABS

ALBIS PLASTIC GmbH

Message:

ALCOM® AWL 109/15 WT1217-11LB is a Polycarbonate + ABS (PC+ABS) product filled with 15% filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® AWL 109/15 WT1217-11LB include automotive and lighting applications.

Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- Heat Stabilizer

General Information			
Filler / Reinforcement	Filler, 15% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Reflectivity		
Uses	Automotive Applications		
	Lighting Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Opaque		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	17.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
--	0.30 to 0.60	%	
Across Flow : 24 hr	0.50	%	
Flow : 24 hr	0.60	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	115	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	50.0	MPa	
Break	39.0	MPa	
Tensile Strain			ISO 527-2
Yield	3.0	%	
Break	13	%	

Flexural Modulus	2700	MPa	ISO 178
Flexural Stress	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	100	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Vicat Softening Temperature	109	°C	ISO 306/B50
Ball Pressure Test (100°C)	Pass		IEC 60695-10-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Glow Wire Flammability Index (2.00 mm)	550	°C	IEC 60695-2-12
Fire Performance (2.00 mm)	passed		FMVSS
Tristimulus Value			
Y10 of Reflection	92	%	DIN 5033
Y10 of Transmittance : 500.0 µm	0.40	%	ISO 13468
Injection	Nominal Value	Unit	
Drying Temperature			
Circulation Dryer	80.0 to 90.0	°C	
Desiccant Dryer	80.0 to 90.0	°C	
Drying Time			
Circulation Dryer	3.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	50.0 to 80.0	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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