

ALCOM® AWL 15/2 WT1471-04LB

Acrylonitrile Butadiene Styrene

ALBIS PLASTIC GmbH

Message:

ALCOM®AWL 15/2 WT1471-04LB is an acrylonitrile butadiene styrene (ABS) product, which contains 15% filler. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. ALCOM®AWL 15/2 WT1471-04LB applications include mirrors, automotive industry and lighting equipment.

Features include:

flame retardant/rated flame

Comply with REACH standard

ROHS certification

General Information			
Filler / Reinforcement	Filler, 15% filler by weight		
Features	High reflectivity		
	Good liquidity		
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	1.16	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	25.0	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	103	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2550	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	38.0	MPa	ISO 527-2
--	38.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	2.0	%	ISO 527-2
Fracture	9.0	%	ISO 527-2
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress			ISO 178
3.5% strain	62.0	MPa	ISO 178

--	62.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
--	8.0	kJ/m ²	ISO 179/1eA
-40°C	4.0	kJ/m ²	ISO 179/1eA
-20°C	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	28	kJ/m ²	ISO 179/1eU
-20°C	30	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	81.0	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm	HB		UL 94
3.0 mm	HB		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.0 mm	650	°C	IEC 60695-2-12
2.0 mm	650	°C	IEC 60695-2-12
3.0 mm	650	°C	IEC 60695-2-12
Additional Information	Nominal Value	Unit	Test Method
Tristimulus Value			
Y10 of Reflection	93	%	DIN 5033
Y10 of Transmission : 500.0 μm	0.10	%	ISO 13468
Injection	Nominal Value	Unit	Test Method
Drying Temperature			
Dehumidification desiccant	80	°C	
Hot air dryer	80	°C	
Drying Time			
Dehumidification desiccant	3.0 - 6.0	hr	
Hot air dryer	2.0 - 4.0	hr	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	50 - 80	°C	

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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

