

ALCOM® AWL 113/15 WT1013-12LB

Polycarbonate + ABS

ALBIS PLASTIC GmbH

Message:

ALCOM®AWL 113/15 WT1013-12LB is a polycarbonate + acrylonitrile butadiene styrene (PC + 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 113/15 WT1013-12LB applications include mirrors, automotive industry and lighting equipment.

Features include:

flame retardant/rated flame

Comply with REACH standard

ROHS certification

heat stabilizer

General Information			
Filler / Reinforcement	Filler, 15% filler by weight		
Additive	heat stabilizer		
Features	High reflectivity		
	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	1.25	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	15.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	117	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	48.0	MPa	ISO 527-2
Fracture	40.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	3.0	%	ISO 527-2
Fracture	12	%	ISO 527-2
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress	79.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	90	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	113	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.5 mm	HB		UL 94
3.0 mm	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Tristimulus Value			
Y10 of Reflection	92	%	DIN 5033
Y10 of Transmission : 500.0 μm	0.40	%	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	230 - 260	°C	
Mold Temperature	50 - 80	°C	

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