

## Technical Data Sheet



### ALCOM AWL 10/3 WT1308-05LB

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Special Features	opaque, highly reflective, heat stabilised, easy flow
Market Segment	Automotive, various
Application Area	lighting, light blocking components
Typical Applications	light guides, reflectors

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 4-8 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 220-260 °C mould temperature 50-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress (3.5% Strain)	60	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	40	MPa	ISO 527
Tensile Elongation at Yield	2	%	ISO 527
Tensile Elongation at Break	8.8	%	ISO 527
Impact Strength (Charpy, 23°C)	48	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4.5	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	110	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	80	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	30	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
<b>Physical Properties</b>			
Density	1130	kg/m <sup>3</sup>	ISO 1183

Technical Data Sheet



**ALCOM AWL 10/3 WT1308-05LB**

**Flammability**

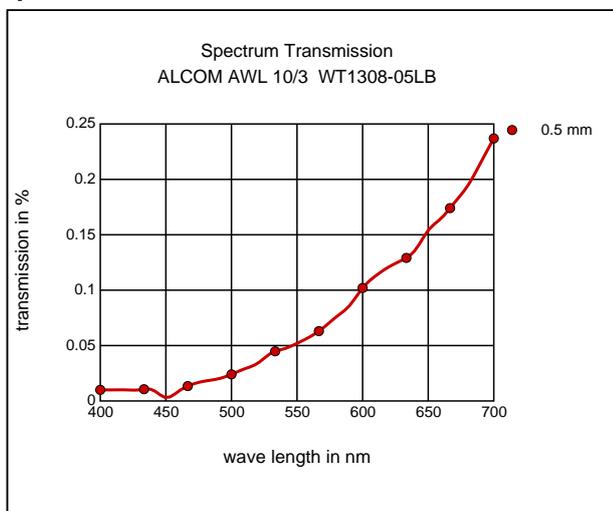
Flammability (1.5 mm) HB class UL 94

**Optical Properties**

Tristimulus Value Y10 of Reflection (d=2,0mm) 84 % DIN 5033  
 Tristimulus Value Y10 of Transm.,d=0.5mm 0.2 % ISO 13468

**Diagrams**

**Spectrum Transmission**



**Spectrum Reflexion**

