

ASTALAC™ ABS KJV

Acrylonitrile Butadiene Styrene

Marplex Australia Pty. Ltd.

Message:

ASTALAC™ ABS KJV is a flame retardant ABS which is designed to meet the Underwriters Laboratories UL94 V-0 flammability test and offers an optimum balance of flame retardency, impact toughness, product rigidity and mouldability. Typical applications include dishwasher fascia panels, electrical switchgear assemblies and other domestic/industrial electrical casing components.

Note: The letters "UV" or "W" indicate UV stabilisation has been added [ie: ASTALAC™ ABS KJVUV].

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Impact Resistance		
	Good Moldability		
	Medium Rigidity		
Uses	Electrical/Electronic Applications		
	Industrial Applications		
	White Goods & Small Appliances		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	97		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	38.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	30	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2150	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	60.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	240	J/m	ASTM D256
Gardner Impact (3.20 mm)	18.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	76.0	°C	
1.8 MPa, Unannealed, 6.40 mm	79.0	°C	
1.8 MPa, Unannealed, 12.7 mm	85.0	°C	
Vicat Softening Temperature	100	°C	ASTM D1525 ⁵

CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	V-0		UL 94
Glow Wire Ignition Temperature (1.60 mm)	960	°C	AS/NZS 60695.2.12
Injection	Nominal Value	Unit	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	3.0 to 5.0	hr	
Rear Temperature	195 to 215	°C	
Middle Temperature	205 to 225	°C	
Front Temperature	215 to 235	°C	
Processing (Melt) Temp	210 to 240	°C	
Mold Temperature	40.0 to 70.0	°C	
Injection Pressure	60.0 to 140	MPa	
Injection Rate	Moderate		
Back Pressure	0.100 to 0.500	MPa	
Screw Speed	40 to 60	rpm	
Clamp Tonnage	3.0 to 6.0	kN/cm ²	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	Loading 1 (10 N)		

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