

ASTALAC™ ABS KJY

Acrylonitrile Butadiene Styrene

Marplex Australia Pty. Ltd.

Message:

ASTALAC™ ABS KJY is a flame retardant ABS development grade which meets the stringent Underwriter's Laboratory UL94 V-0 flammability rating 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 KJYUV].

General Information	
Additive	Flame Retardant
Features	Flame Retardant
	Good Impact Resistance
	Good Moldability
	Medium Rigidity
Uses	Appliance Components
	Electrical/Electronic Applications
	Industrial Applications

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.0	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)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	39.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	15	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2400	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.20 mm	73.0	°C	
1.8 MPa, Unannealed, 12.7 mm	86.0	°C	
Vicat Softening Temperature	99.0	°C	ASTM D1525 ⁵
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.60 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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