

Stylac™ 181

Acrylonitrile Butadiene Styrene
Asahi Kasei Chemicals Corporation

Message:

Stylac™ 181 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, or Europe. Typical application: High Temperature Applications.
Characteristics include:
Flame Rated
Heat Resistant

General Information			
UL YellowCard	E171626-225517		
Features	Medium Heat Resistance		
Uses	High Temperature Applications		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.4	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	8.80	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 2.50 mm)	103		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	45.3	MPa	ISO 527-2/50
Flexural Modulus ¹	2350	MPa	ISO 178
Flexural Stress ²	74.3	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	22	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	87.8	°C	ISO 75-2/A
Vicat Softening Temperature	108	°C	ISO 306/B
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Ball Pressure Test ³	100	°C	EMAC
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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