Stylac™ ID31J

Asahi Kasei Corporation - Acrylonitrile Butadiene Styrene

Monday, February 27, 2017

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Features	• High Impact Resistance	• Paintable	
Uses	• Paint		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	19	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	20.4	cm³/10min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	42.1	MPa	ISO 527-2/50
Flexural Modulus [2]	2150	MPa	ISO 178
Flexural Stress [2]	66.6	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	32	kJ/m²	ISO 179
Hardness	**Nominal Value**	**Unit**	
Rockwell Hardness (R-Scale, 2.50 mm)	97		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	78.7	°C	ISO 75-2/A
Vicat Softening Temperature	98.7	°C	ISO 306/B

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 mm/min