



SkyGate Polymer Sdn Bhd

Reg No: 202401023225 (1569074-W)

ACRYLONITRILE BUTADIENE STYRENE (ABS) TECHNICAL DATA SHEET

ITEM		TEST METHOD	UNIT	ABS
		ASTM		
OPTICAL	Refractive Index	ASTM D542	-	-
	Total Transmission	ASTM D1003	%	-
	Haze	ASTM D1003	%	-
THERMAL	Coefficient of Linear Expansion	ASTM D696	cm/cm/°C	0.0050
	Vicat Softening Temperature (VST)	ASTM D1525 ¹²	°C	95
	Deflection Temperature Under Load 1.82 Mpa (unannealed)	ASTM D648	°C	83
	Melt Flow Rate (MFR) 300°C, 1.2kg	ASTM D1238	g/10min.	15
MECHANICAL	Tensile Strength at break	ASTM D638	Mpa	49
	Tensile Strain at break	ASTM D638	%	48
	Flexural Strength	ASTM D790	Mpa	74
	Flexural Modulus	ASTM D790	Mpa	2300
	Izod Impact Strength (notched)	ASTM D256	kg/m ²	265
	Rockwell Hardness Scale R	ASTM D785	-	113
ELECTRICAL	Volume Resistivity	ASTM D257	Ω cm	>10 ¹⁶
	Dielectric Strength (1.6mm)	ASTM D149	kV/mm	25
	Dielectric Constant (1MHz)	ASTM D150	60 Hz	3.06
	Dissipation Factor (1MHZ)	ASTM D150	60 Hz	4.5E-3
OTHER	Specific Gravity	ASTM D792	g/cm ³	1.04
	Mold Shrinkage	ASTM D955	%	-
	Water Absorption	ASTM D570	%	-
	Flammability (1.6mm)	UL 94	-	HB

*The above data are typical laboratory values and are intended to serve as guides only.

Benefits

High Durability
Lightweight
Impact resistance
Thermal resistance
Chemical resistance
Cost-Effective
Easy Maintenance

Applications

Aviation cabin interiors
Aircraft component
Automotive fixtures & Trays
Construction wall panels
Electronic casings
Furnitures
Luggages

30 Years of
Extrusion
Excellence

A-PLAS[®]

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