

Novalloy-B B45MO

Acrylonitrile Butadiene Styrene + PBT

Daicel Polymer Ltd.

Message:

Novalloy-B B45MO is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) material. It is available in Asia Pacific. Primary attribute of Novalloy-B B45MO: Flame Rated.

General Information			
UL YellowCard		E47773-239646	
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.60 to 0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	44.0	MPa	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	115	°C	ASTM D648
0.45 MPa, Unannealed	115	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	100	°C	ASTM D648
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.50 mm)	31	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	79.0	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 1		UL 746
Comparative Tracking Index (3.00 mm)	400	V	IEC 60112
High Amp Arc Ignition (HAI) (1.50 mm)	150		UL 746
High Amp Arc Ignition (HAI) (1.50 mm)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	5.00	mm/min	UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 0		UL 746
Hot-wire Ignition (HWI) (1.50 mm)	18	sec	UL 746
Hot-wire Ignition (HWI) (1.50 mm)	PLC 3		UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.20 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	80.0 to 120	°C
Drying Time	3.0 to 5.0	hr
Rear Temperature	190 to 230	°C
Middle Temperature	220 to 240	°C
Front Temperature	240 to 250	°C
Nozzle Temperature	230 to 250	°C
Mold Temperature	60.0 to 80.0	°C
Back Pressure	5.00 to 20.0	MPa
Screw Speed	50 to 90	rpm

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

