

## VINPOL™ AB0406

### Acrylonitrile-Butadiene-Styrene

Melt Flow: 4

Specific Gravity: 1.05

VINPOL AB0406 is a high impact acrylonitrile-butadiene-styrene resin with high gloss and good flow.

Resin Property	Typical Value	Units	Test Method
Melt Flow, 230°C, 3.8 kg	4	g/10 min	ASTM D-1238
Specific gravity	1.05	-	ASTM D-792
Mold Shrinkage, flow, 3.2mm	0.5-0.8	%	Supplier Method
Melt Volume Rate, 220°C/10.0kg	15	cm <sup>3</sup> /10 min	ISO 1133
Tensile Stress at Yield, Type I, 5mm/min	5,950 (41)	psi (MPa)	ASTM D-638
Tensile Strain at Yield, Type I, 5mm/min	2.1	%	ASTM D-638
Tensile Stress at Break, Type I, 5mm/min	4,500 (31)	psi (MPa)	ASTM D-638
Tensile Strain at Break, Type I, 5mm/min	26	%	ASTM D-638
Flexural Stress at Yield, 1.3mm/min; 50mm span	9,860 (68)	psi (MPa)	ASTM D-790
Flexural Modulus, 1.3mm/min; 50mm span	309,000 (2,130)	psi (MPa)	ASTM D-790
HDT, 0.45 MPa, 3.2mm, unannealed	207 (97)	°F (°C)	ASTM D-648
Vicat Softening Temp., Rate B/50	208 (98)	°F (°C)	ASTM D-1525
CTE, -40°C to 40°C, flow	8.82E-05	1/°C	ASTM E-831
CTE, -40°C to 40°C, xflow	8.64E-05	1/°C	ASTM E-831
Notched Izod Impact Strength, 73° F (23°C)	6.5 (347)	ft-lb/in (J/m)	ASTM D-256
Instrumented Impact Total Energy, 73°F (23°C)	23 (31)	ft-lb (J)	ASTM D-3763
Arc Resistance, Tungsten (PLC)	5	PLC Code	ASTM D-495
Hot Wire Ignition (PLC)	3	PLC Code	UL-746A
High Voltage Arc Track Rate (PLC)	2	PLC Code	UL-746A
High Ampere Arc Ign, surface (PLC)	0	PLC Code	UL-746A
Comparative Tracking Index (UL) (PLC)	0	PLC Code	UL 746A
UL Recognized, 94HB Flame Class Rating	1.52	mm	UL94

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