

## Perstorp Compounds Aminel FX Melamine

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Melamine , Melamine Formaldehyde, Molded, Cellulose Filler

**Material Notes:**

Organically reinforced melamine material with excellent flow properties and high flexibility suitable for applications involving high complexity and surface demands. Information provided by Perstorp Compounds Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Perstorp-Compounds-Aminel-FX-Melamine.php](http://www.lookpolymers.com/polymer_Perstorp-Compounds-Aminel-FX-Melamine.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.600 - 0.700 g/cc	0.0217 - 0.0253 lb/in <sup>3</sup>	DIN 53 468
Density	1.50 g/cc	0.0542 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	DIN 53 464

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 178
Elongation at Break	2.0 %	2.0 %	ISO 178
Tensile Modulus	3.00 GPa	435 ksi	ISO 527
Flexural Strength	125 MPa	18100 psi	ISO 178
Flexural Modulus	5.50 - 6.50 GPa	798 - 943 ksi	ISO 178
Compressive Strength	210 - 240 MPa	30500 - 34800 psi	ISO 604
Charpy Impact Unnotched	1.60 - 1.80 J/cm <sup>2</sup>	7.61 - 8.57 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.258 W/m-K	1.79 BTU-in/hr-ft <sup>2</sup> -°F	
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	ISO 175
Deflection Temperature at 8.0 MPa	110 °C	230 °F	ISO 175
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 30 %	>= 30 %	ASTM D2863
Shrinkage	1.30 - 1.60 % @Temperature 110 °C, Time 605000 sec	1.30 - 1.60 % @Temperature 230 °F, Time 168 hour	Post Shrinkage; DIN 53 464

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{13}$ ohm-cm	$\geq 1.00 \times 10^{13}$ ohm-cm	DIN 53 483
Surface Resistance	$\geq 1.00 \times 10^{11}$ ohm	$\geq 1.00 \times 10^{11}$ ohm	DIN 53 482
Dielectric Constant	6.0 - 7.0	6.0 - 7.0	DIN 53 483
Dissipation Factor	0.050 @Frequency 1000 Hz	0.050 @Frequency 1000 Hz	tan delta; DIN 53 483
Arc Resistance	$\geq 120$ sec	$\geq 120$ sec	
Comparative Tracking Index	$\geq 600$ V	$\geq 600$ V	IEC 112

Descriptive Properties	Value	Comments
Glow Bar 960°C 180 sec	BH2-8	IEC 707
Water Absorption [mg]	<200	DIN 53 495/23°C 96h

## Contact Songhan Plastic Technology Co.,Ltd.

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