



PRIME 3000 Anti-Viral

PRIME 3000 Anti-Viral is a Polypropylene thermoplastic sheet with a patented anti-viral additive added. Prime 3000 Anti-Viral has proven to have great efficacy against coronavirus, E-coli and MRSA. The additive has no effect on physical properties.

	Property	Unit	ISO	Value
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PHYSICAL

Density (Natural)		g/cc	1183	.91
Melt Flow (190°C/5kg)		g/10min	118	0.3-0.4

MECHANICAL

Izod Impact, notched	kJ/m ²	23°C	180/A	58
		-30°C	180/A	7
Stress @ yield	MPa	50mm/min	527/2	28
Stress @ break	MPa	50mm/min	527/2	12
Strain @ yield	%	50mm/min	527/2	12
Flexular Modulus	MPa		178	1300
			868	1350
Shore D surface hardness				64

THERMAL

VST @ 10N (VST/A)	°C		306	158
HDT@0.45 MPa (HDT/B)	°C		75	90

Anti-Viral

Reduction in Feline coronavirus (Munich strain)	%	2 hours	21702:2011	78.62%
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Anti-Microbial

Reduction in E-Coli	%	24 hours	22196:2011	>99%
Reduction in MRSA	%	24 hours	22196:2011	>99%

Finishing

Aluminium tool construction is recommended with a temperature control function to ensure consistent moulding & finished part dimensional tolerances. A constant tool temperature (Typically 70-80°C for PRIME 3000 Anti-Viral) should be maintained throughout the production run. Cooling using air or water spray will speed up the cooling cycle to provide efficient production output. Once removed from the tool, it is recommended that the component is clamped in a frame for a short period to optimise dimensional stability & reduce the risk of warping. Shrinkage rates are available on application.

Colour, Textures, Capabilities

PRIME 3000 Anti-Viral is available in a full range of colours (subject to minimum order quantities) either colour matched to specific colour references, or to customer sample. A range of more standard colours is available for non-specific requirements. For outdoor use, PRIME 3000 Anti-Viral can be stabilised against UV degradation. PRIME 3000 Anti-Viral is available with a smooth or with a textured finish.

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