



CPVC Material Solutions

TempRite® 88033

Profile Extrusion Material

Product Data Sheet

HEAT

Chemical Resistance

Flame & Smoke

Agency Listings

The unique performance advantages of Chlorinated Poly-Vinyl Chloride (CPVC) are available for processing on conventional vinyl extrusion equipment with TempRite® compounds exclusively from Noveon, the world leader in CPVC markets and technology.

Advances in CPVC extrusion material technology now allow cost effective replacement of expensive engineering resins, and value added substitution where commodity thermoplastics do not perform. End-use and processing advantages make TempRite® 88033 ideally suited for many applications. Mechanical property retention at elevated temperatures and broad chemical resistance make CPVC a uniquely performing engineering thermoplastics.

Noveon's technical center offers a full range of design, engineering and technical support services and on-site processing assistance to shorten the application development cycle and accelerate commercialization. Sales offices in 11 worldwide locations offer unequalled service and support.

TempRite® 88033 is available in made to stock colors directly from Noveon's global distribution network. Packaging options include boxes and bulk shipment.

	END – USE BENEFIT	PROCESSING BENEFIT
MATERIAL PERFORMANCE	<ul style="list-style-type: none"> HDT of 205°F for mechanical property retention at elevated service temperatures. Broad chemical resistance for use in corrosive environments, for example, in presence of strong acids and bases. High mechanical properties for parts requiring toughness. 	<ul style="list-style-type: none"> Suitable for common secondary operations such as machining and painting. Excellent adhesion to flexible polymers for part consolidation.
COST	<ul style="list-style-type: none"> Tight dimensional tolerances during processing for parts consolidation. Multiple polymer co-extrusion capability for further parts consolidation. 	<ul style="list-style-type: none"> Post-processor recyclable for efficient material usage.
QUALITY	<ul style="list-style-type: none"> Improved processability produces consistent looking parts. Smooth and polished finish for a high quality appearance part. 	<ul style="list-style-type: none"> Consistent looking parts in high and medium shear conditions. Low gel content for high quality surface appearance.

PROPERTY TABLE ON REVERSE SIDE

PROPERTY	TEST METHOD	TYPICAL VALUES FOR TESTED LOTS	
		88033	UNITS
THERMAL Heat deflection under load 264 psi, 1/8" bar unannealed Vicat softening, method B (1kg) Coefficient of thermal expansion -30 to +30°C	ASTM D-648 ASTM D-1525 ASTM D-696	205 96 266 130 3.7 6.7	°F °C °F °C $\times 10^{-6}$ in/in-°F $\times 10^{-6}$ cm/cm-°C
MECHANICAL Tensile strength (73°F / 23°C) At yield Tensile modulus (73°F / 23°C) Flexural strength (73°F / 23°C) Flexural modulus (73°F / 23°C)	ASTM D-638 ASTM D-638 ASTM D-790 ASTM D-790	7,600 52 385,00 2,650 14,400 100 406,000 2,800	psi MPa psi MPa psi MPa psi MPa
IMPACT Notched izod 1/8" bar @ 73°F Variable height 3/8" diameter TUP @ .035" thickness	ASTM D-256 ASTM D-3209	6.5 350 1.4 6	ft-lb/in J/m in-lb/mil kJ/m
PHYSICAL Specific gravity Gray 240	ASTM D-792	1.5	
CHEMICAL RESISTANCE Acid Immersion (93.5% H2SO4) 14 days @ 131°F Acid Immersion (80% H2SO4) 30 days @ 140°F ASTM #3 Oil Absorption 24 hrs @ 73°F	ASTM D-570 ASTM D-570 ASTM D-570	6.5 0.05 0.23 0.01	% wt. chg. % flex str. chg. % wt. chg. % wt. chg.

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Noveon shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond Noveon's direct control. THE SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.