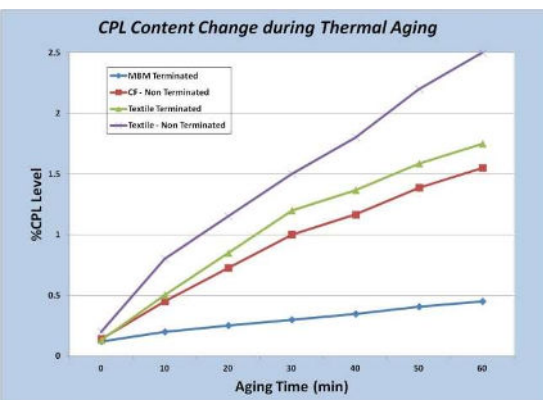
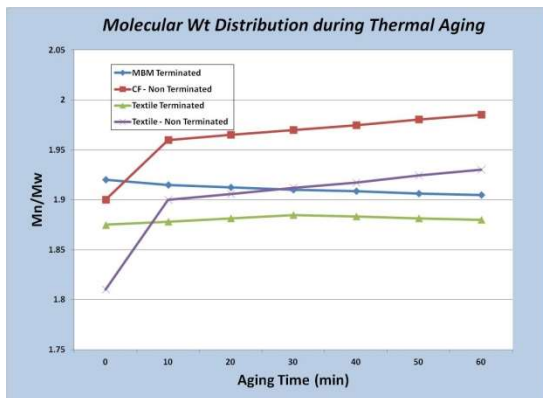
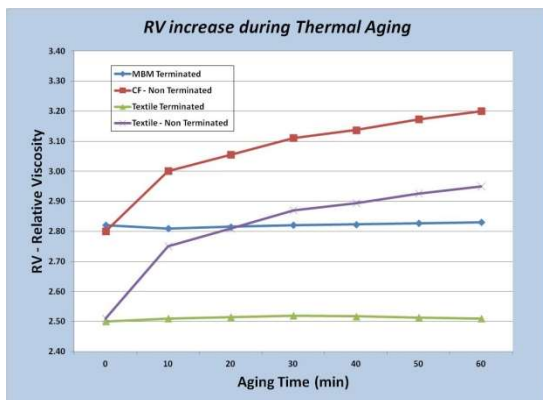


# Aegis® MBM Carpet Fibers & Multifil Nylon 6 Resin



## AdvanSix Resins and Chemicals

AdvanSix Resins & Chemicals is a global leader in specialty markets – including Nylon 6 resins, Caprolactam, & chemical intermediates. AdvanSix products serves diverse applications such as fibers/filaments (carpet, fabrics, nets, cords, etc.), engineered plastics components (automotive, consumer, industrial), & films for food and protective packaging.

In addition to being one of the top 5 fully integrated manufacturers of Nylon 6 resin globally, AdvanSix offers over a half-century of technology and customer-focused application development expertise to enable sustainable growth worldwide.

## Product Value Proposition

AdvanSix Aegis® MBM Carpet Fibers & Multifil Nylon 6 is medium viscosity bright resin designed w/proprietary dual terminated chemistry for high speed process stability/performance. MBM resin technology also has slower dyeing properties allowing for excellent dye application control/uniformity. MBM is robust design polymer able to work well in wide range of high quality fiber/filament products.

## Product Features and Benefits

AdvanSix Aegis® MBM Nylon 6 Resin delivers high performance and product application attributes that matter to the end use Carpet Fiber and multifilament industries:

- **High Speed Performance** – fundamental chemistry designed for high speed process stability & performance in Carpet and Multifilament applications (Process speeds +4000 ppm)
- **Extrusion/Rheological stability** – proprietary dual termination chemistry creates very stable melt polymer during extrusion – even longer residence times (Stable RV, Molecular Wt, %CPL build)
- **Excellent Dye Uniformity/Control** – dual terminated chemistry creates slower fluid dye strike rates for better dye application control & uniformity (esp Monotone, Printed, & Space Dye fabrics)  
Note: MBM also works very well in SDN pigmented applications
- **Friendly for handling/Storage** – fundamental termination chemistry less sensitive to potential handling/storage %H2O regain issues during customer processing.

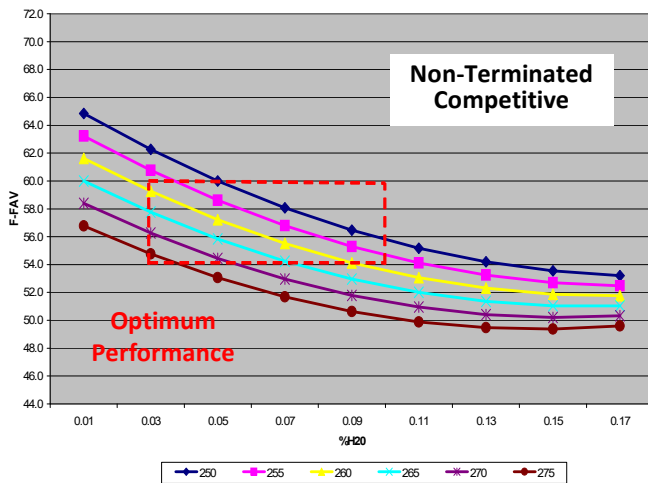
## Specifications:

Parameter	Test Method	Unit	Value
Viscosity, FAV	FAV ASTM D-789		58-64
96% SAV			2.83
Moisture Content	ASTM D-6869	%	Max. 0.15
Extractable Content	SOP-702-307	%	Max. 1.10

## General Properties:

Parameter	Test Method	Unit	Value
Melting Point	ASTM D-3418	°C	220
Density (Typical)	ASTM D-1505	g/cm <sup>3</sup>	1.13
Forms			Pellets

## Competitive Freefall FAVs by Melt Temps & %H2O



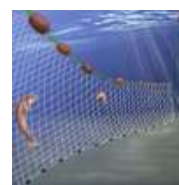
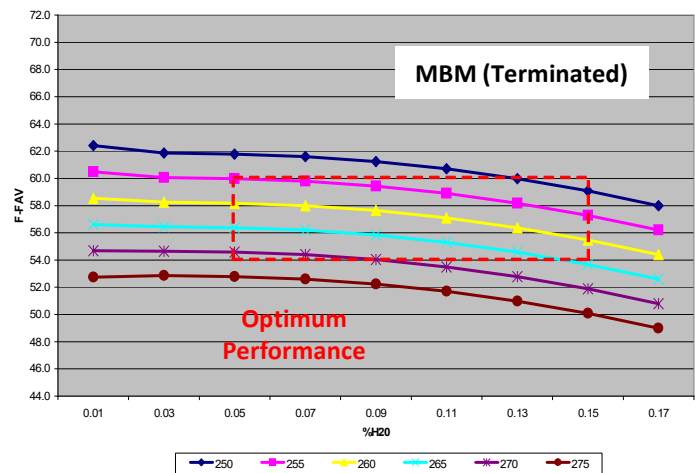
## Target Markets and Applications

The primary target market for this new offering includes manufacturers that convert nylon resin into fibers/filaments for residential & commercial carpets along with wide range of multifilament applications (Industrial fabrics, belts, straps, etc).

## Competitive Performance

AdvanSix Aegis® MBM Nylon 6 Resin has demonstrated competitive or superior performance vs current high speed Carpet Fiber industry alternatives. MBM proprietary chemistry also achieves excellent dye quality/uniformity in critical high value applications (i.e. Monotone, Prints, Space Dye, etc).

## MBM Freefall FAVs by Melt Temps & %H2O



## Contact AdvanSix

To learn more about the benefits of Aegis® Nylon Resins, visit [AdvanSix.com/NylonSolutions](http://AdvanSix.com/NylonSolutions) or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-526-1800** (international)

## AdvanSix

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