HiDura® D0MW UV Resistant PA612 for Cable Management

Increasing the reliability and longevity of solar applications

Effective cable management in solar installations demands resilient fastening solutions for enduring outdoor challenges. Traditional cable ties and fasteners often lack the durability required for long-term use, especially in environments with galvanized steel. The key factors when selecting cable ties for solar arrays are UV resistance, chemical durability and robust strength.

Galvanized steel, prevalent in solar panel installations, poses a unique threat to standard cable tie materials like polyamide 6,6 (PA66) due to oxidation events that lead to zinc chloride formation. Ascend's new HiDura long-chain polyamides, specifically PA 612, are known for superior chemical resistance and UV resistance. The RTI ratings reflect a significant advantage, further differentiating D0MW as a best-in-class material for solar cable tie applications.

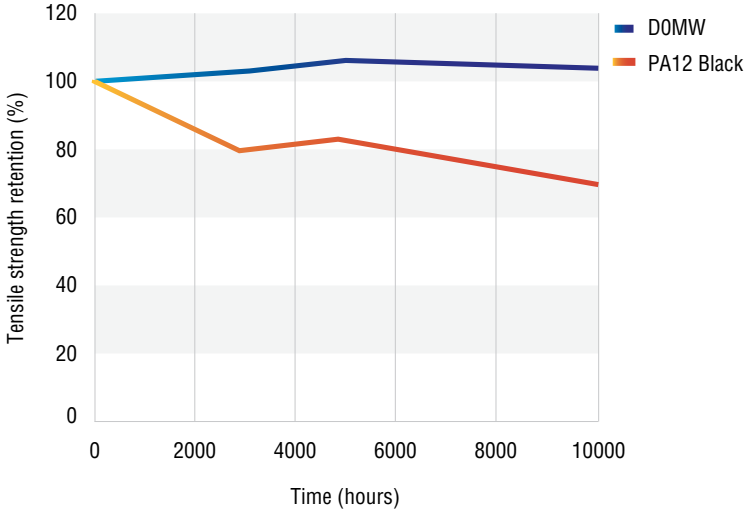
Highlights

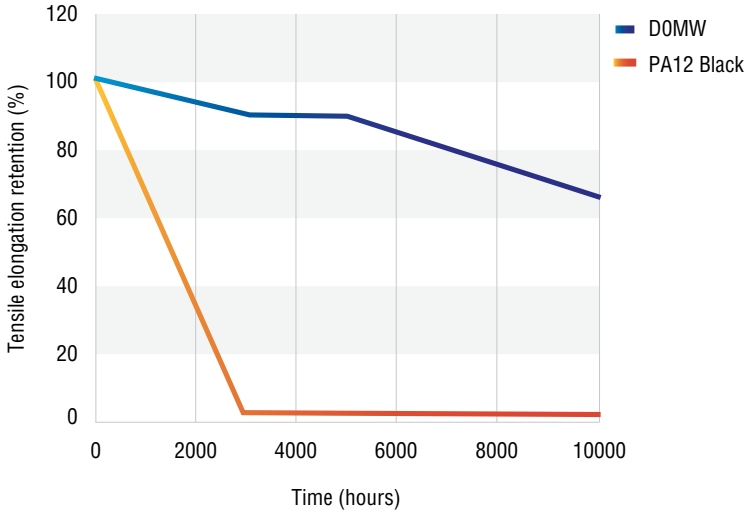
- Excellent UV resistance
- Chemical resistance
- 1.6x higher productivity compared to PA12
- Higher strength and stiffness

Designed to withstand prolonged UV exposure

With an innovative UV package, HiDura D0MW can extend cable tie lifespan to over 20 years. This new material was tailored specifically for solar cable management, with better UV resistance. HiDura D0MW outperforms competitive PA12 grades in accelerated UV testing.

HiDura D0MW vs. PA12 - UV Aging (ISO 4892-2)





Brand Name	Grade	Description
HiDura	D0MW BK0804	Weatherable, lubricated, low viscosity PA612 molding grade Learn more

D0MW has a 140°C Dielectric Strength RTI and a 110°C Tensile Strength RTI.

Learn more

Severe surface degradation/cracking

No visible surface degradation

For more information, contact our expert applications specialists or visit ascendmaterials.com.

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