

# HiDura® DOMW 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 DOMW as a best-in-class material for solar cable tie applications.

### Highlights



Excellent UV  
resistance



Chemical  
resistance



1.6x higher productivity  
compared to PA12

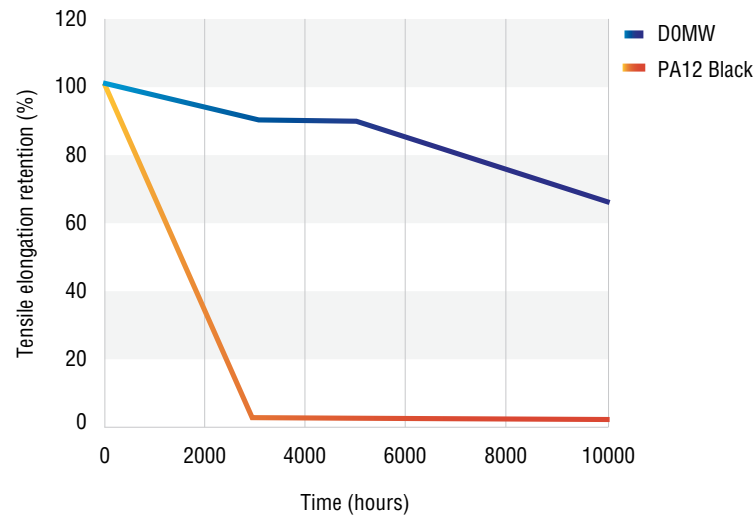
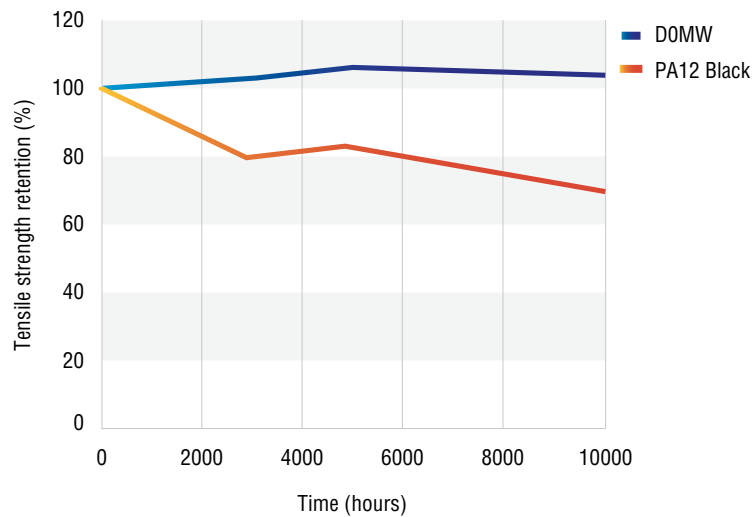


Higher strength  
and stiffness

## Designed to withstand prolonged UV exposure

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

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



Brand Name	Grade	Description
HiDura	DOMW BK0804	Weatherable, lubricated, low viscosity PA612 molding grade
		<a href="#">Learn more</a>

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

[Learn more](#)

For more information, contact our expert applications specialists or visit [ascendmaterials.com](https://ascendmaterials.com).

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Competitor PA12

Severe surface degradation/cracking



DOMW

No visible surface degradation