
CONSUMER & INDUSTRIAL APPLICATION PROFILE

Monofilament

Products Used: **HiDura™** S1X, D1X, D2X, D3X
Vydyne® 63A, 65A, 66B

Application Description

Ascend offers a full portfolio of products for extrusion of monofilaments. Our specialty HiDura™ PA610 and PA612 grades offer best-in-class abrasion resistance and improved loop strength, extending the life of the application. We also offer Vydyne PA66 standard and heat stabilized grades for precise viscosity control and excellent processing performance. Ascend's fully integrated manufacturing processes allow us to provide the highest quality polymers with consistently bright color and clarity.

Applications

- Cosmetic brushes
- Toothbrushes
- Industrial brushes
- Paper machine clothing
- Conveyor belts
- Fishing line
- Trimmer line

Benefits

- Best-in-class abrasion resistance provides extended life
- HiDura PA612, HiDura PA610 and Vydyne PA66 standard and heat stabilized grades, available in a range of viscosities
- Improved tensile properties, flex fatigue resistance and bend recovery
- Excellent extrusion performance
- Low moisture absorption
- Hydrolysis resistance



Products

Product	Number Average MW	VN Sulfuric Acid	RV Sulfuric Acid	Link to Technical Data Sheet	
Test Method	-	ISO 307	ISO307		
Units	<i>Mn</i>	cm ³ /g	-		
HiDura	PA612 - D1X	17,000	~2.3	TDS	
	PA610 - S1X	17,000	~2.3	<i>Coming soon</i>	
	PA612 - D2X	21,000	~2.6	TDS	
	PA610 - S2X	21,000	~2.6	<i>Coming soon</i>	
	PA612 - D3X	25,000	~3.0	TDS	
	PA610 - S3X	25,000	~3.0	<i>Coming soon</i>	
Test method	ASTM D-789	-	ISO 307		
Vydyne	PA66 - 63A	82	-	3.24	TDS
	PA66 - 65A	132	-	3.76	TDS
	PA66 - 66B	120	-	3.68	TDS



Ascend Performance Materials makes high-performance materials for everyday essentials and new technologies. Our focus is on improving quality of life and inspiring a better tomorrow through innovation. We make the plastics, fabrics, fibers and chemicals used to make safer vehicles, cleaner energy, better medical devices, smarter appliances and longer-lasting apparel and consumer goods. We are committed to safety, sustainability and the success of our customers and our communities.

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