



Vydyne® 50BWFS

Ascend Performance Materials Operations LLC - Polyamide 66

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General Information

Product Description

Vydyne 50BWFS is general-purpose PA66 resin. Offered in natural and designed for extrusion-compounding applications, this product is available at two moisture levels: 0.2% (max) as Vydyne 50BW and 0.5% (max) as Vydyne 50BWFS.

Vydyne 50BWFS provides the chemical resistance typical of PA66 to many chemicals, machine and motor oils, solvents and gasoline. Vydyne 50BWFS exhibits good initial color and color retention after compounding.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Chemical Resistant • Gasoline Resistant	• General Purpose • Good Color Stability	• Oil Resistant • Solvent Resistant
Uses	• Compounding		
Agency Ratings	• ASTM D4066 PA0111 • ASTM D6779 PA0111 • EC 1935/2004	• EU 10/2011 • EU 2023/2006 • FDA 21 CFR 177.1500	• NSF STD-51 • NSF STD-61
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Compounding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Viscosity Number (H ₂ SO ₄ (Sulphuric Acid))	137 to 148	cm ³ /g	ISO 307
Bulk Density	674	g/l	ASTM D1895
Moisture Content	0.50	%	ASTM D6869
Relative Viscosity ²	45.0 to 51.0		ASTM D789
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	500	°F	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Yellowness Index	-4.0	YI	ASTM D1925

Notes

¹ Typical properties: these are not to be construed as specifications.

² Formic acid