



Vydyne® 21Z

Ascend Performance Materials Operations LLC - Polyamide 66

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General Information

Product Description

Vydyne 21Z is a general-purpose PA66 resin. It is available in natural and designed for extrusion-compounding applications. This resin offers a well balanced combination of engineering properties characterized by high strength, rigidity, good toughness, high melt point, good surface lubricity and abrasion resistance.

Vydyne 21Z maintains the chemical resistance typical of PA66 to many chemicals, machine and motor oils, solvents and gasoline.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Abrasion Resistant • Chemical Resistant • Gasoline Resistant • General Purpose	• Good Toughness • High Rigidity • High Strength • Low Viscosity	• 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
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))	135 to 143	cm ³ /g	ISO 307
Bulk Density	674	g/l	ASTM D1895
Moisture Content	0.50	%	ASTM D6869
Relative Viscosity ²	44.0 to 48.0		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