

Vydyne® AK8ST41

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

Vydyne AK8ST41 is a mineral filled, impact modified PA66 for injection molded applications.

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Filler / Reinforcement	• Mineral	
Additive	• Impact Modifier	• Mold Release
Features	• Good Dimensional Stability	• Impact Modified
Agency Ratings	• ISO 1043 PA66 I MD40	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	
Resin ID	• PA66-I-MF	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	696000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	10200	psi	ISO 527-2
Tensile Strain (Break, 73°F)	10	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	5.7	ft·lb/in ²	ISO 180/1A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	500 to 536	°F
Middle Temperature	518 to 536	°F
Front Temperature	518 to 554	°F
Processing (Melt) Temp	518 to 554	°F
Mold Temperature	140 to 194	°F

Notes

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

