

Vydyne® PK003EI2

 Ascend Performance Materials Operations LLC - *Polyamide 6*
General Information
Product Description

Vydyne PK003EI2 is an impact, modified mineral filled PA6 for injection molded applications.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> Europe North America
Filler / Reinforcement	<ul style="list-style-type: none"> Mineral, 15% Filler by Weight
Additive	<ul style="list-style-type: none"> Impact Modifier
Features	<ul style="list-style-type: none"> Impact Modified
Agency Ratings	<ul style="list-style-type: none"> ISO 1043 PA6 I MD15
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding
Resin ID	<ul style="list-style-type: none"> PA6-I-MD15

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	464000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	7980	psi	ISO 527-2
Tensile Strain (Break, 73°F)	6.0	%	ISO 527-2
Flexural Modulus (73°F)	450000	psi	ISO 178
Flexural Stress (73°F)	11600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	4.0	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	38	ft·lb/in ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	136	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	464 to 482	°F
Middle Temperature	482 to 500	°F
Front Temperature	482 to 500	°F
Processing (Melt) Temp	464 to 500	°F
Mold Temperature	122 to 194	°F

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