

Vydyne® BST43

Ascend Performance Materials Operations LLC - Polyamide 6

General Information

Product Description

Vydyne BST43 is an impact modified PA6 for injection molded applications.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Additive	• Impact Modifier • Mold Release
Features	• Impact Modified
Agency Ratings	• ISO 1043 PA6 I
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA6-I

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	305000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	7250	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	4.1	%	ISO 527-2
Tensile Strain (Break, 73°F)	> 50	%	ISO 527-2
Flexural Modulus (73°F)	261000	psi	ISO 178
Flexural Stress (73°F)	10200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (-22°F)	48	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-40°F	4.3	ft·lb/in ²	
73°F	19	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	165	°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	428 to 446	°F
Middle Temperature	446 to 464	°F
Front Temperature	464 to 482	°F
Processing (Melt) Temp	464 to 482	°F
Mold Temperature	140 to 194	°F

Notes

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

