

Vydyne® RF007ESS

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

Vydyne RF007ESS (formerly RF1007EMHS) is a 35% glass fiber reinforced PA66 + PA6 for injection molded applications.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Additive	• Heat Stabilizer • Mold Release
Features	• Good Stiffness • Good Strength • Heat Stabilized
Agency Ratings	• ISO 1043 PA66+PA6 GF35
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-GF35

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 73°F)	25800	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.4	%	ISO 527-2
Flexural Modulus (73°F)	1.32E+6	psi	ISO 178
Flexural Stress (73°F)	34100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	4.8	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	24	ft·lb/in ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	459	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
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.

