

HiDura™ D1MG33J BK0816

Ascend Performance Materials Operations LLC - Polyamide 612

General Information
Product Description

HiDura D1MG33J BK0816 is an organically heat stabilized, 33% glass filled PA612 designed for injection molding applications.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Chemical Resistant	• Heat Stabilized	• Hydrolysis Resistant
	• Good Thermal Stability	• Heat Stabilized - Organic	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA612-GF33		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 73°F, 0.0787 in	1.3	--	%	
Flow : 73°F, 0.0787 in	0.40	--	%	
Water Absorption (24 hr, 73°F)	0.30	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.80	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.42E+6	1.15E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	23200	18400	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.5	5.0	%	ISO 527-2
Flexural Modulus (73°F)	1.36E+6	1.13E+6	psi	ISO 178
Flexural Stress (73°F)	34100	25700	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°F	4.8	4.8	ft·lb/in ²	
-22°F	4.8	4.8	ft·lb/in ²	
73°F	6.2	6.7	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°F	33	31	ft·lb/in ²	
-22°F	33	33	ft·lb/in ²	
73°F	40	37	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180/1A
-40°F	4.8	4.4	ft·lb/in ²	
-22°F	4.8	4.7	ft·lb/in ²	
73°F	5.7	6.2	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	412	410	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	387	376	°F	ISO 75-2/A
Melting Temperature	424	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (0.0394 in)	790	760	V/mil	IEC 60243-1



Processing Information

Injection	Dry Unit
Drying Temperature	< 176 °F
Drying Time	< 4.0 hr
Processing (Melt) Temp	464 to 572 °F
Mold Temperature	140 to 248 °F

Notes

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

