

TexRes PA 66 FG43

TexCo Resin - Polyamide 66

General Information

Product Description

43% glass fiber reinforced, Polyamid 66

General

Filler / Reinforcement	• Glass Fiber, 43% Filler by Weight
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	25	cm ³ /10min	ISO 1133
Viscosity Number	145	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.96E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	31200	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Flexural Modulus	1.77E+6	psi	ISO 178
Flexural Stress			ISO 178
4.0% Strain	48600	psi	
3.5% Strain	47100	psi	
4.0% Strain ²	47900	psi	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	4.8	ft·lb/in ²	
73°F	7.1	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	> 482	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	> 482	°F	ISO 75-2/Af
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.040 to 0.10	%
Suggested Max Regrind	20	%
Processing (Melt) Temp	536 to 572	°F
Mold Temperature	140 to 248	°F