

Tecomid® NA43 GR25 NL XA43

Polyamide 66
Eurotec Engineering Plastics

Message:
PA6.6, 25% glass fiber reinforced, flame retardant - red phosphorus, heat stabilized, natural, UL registered

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Additive	heat stabilizer		
	Flame retardancy		
Features	Thermal Stability		
	Flame retardancy		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PA6.6 GF25 FR(52)		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	1.0	%	Internal method
Flow direction	0.20	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	%	ISO 62
Moisture Content		%	ISO 15512
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	7.0	kJ/m²	ISO 180/1A
23°C	8.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	45	kJ/m²	ISO 180/1U
23°C	50	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, not annealed	250	°C	ISO 75-2/B
1.8 MPa, not annealed	245	°C	ISO 75-2/A
Melting Temperature ¹	262	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	> 350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		UL 94
1.60 mm	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 - 4.0	hr	
Hopper Temperature	60.0 - 80.0	°C	
Processing (Melt) Temp	270 - 290	°C	
Mold Temperature	50.0 - 100	°C	
Injection Rate	Moderate-Fast		
Holding Pressure	50.0 - 100	MPa	
Injection instructions			
Pre-drying is not necessary for materials in moisture proof closed bags.			
NOTE			
1.	10 K/min		

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