Technical Data Sheet

Vitamide AY16 NAT 0-0000

Polyamide 66

Product Description

Flame retardant V0, 30% Glass filled Polyamide 66. This Grade offers a good balance of flow, tensile, flexural and impact strength. Available with enhanced UV (AY26), heat stability (AY36) Oil heat glycol hydrolysis resistance (AY66), UV and heat resistance (AY76), and hydrolysis resistance (AY86). Colour matched compounds and customer specific performance requirements are available on request

Processing Method	Injection Molding
Additive	Flame Retardant
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.59	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break	3	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Tensile Stress at Break	155	MPa	ISO 527-2
Flexural Stress	175	MPa	ISO 178
Impact			
Notched Izod Impact Strength	7	kJ/m²	ISO 180
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	240	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	200	°C	ISO 75-2/A
DSC Melting Point	260	°C	ISO 3146
Electrical			
Tracking Resistance			
(DIN 53480)			
(DIN 53480)			
Flammable			
Burning Rate, (FMVSS 302)	<100	mm/min	FMVSS 302
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Oxygen Index	31	%	ISO 4589-2
Additional Information			
Molding Shrinkage	0.35	%	ISO 294-4
Water Absorption 24h/23C	1.1	%	ISO 62
UL Information			
Flame Rating, (1.6 mm)	V-0		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	60 to 120	°C