

Technical Data Sheet

Vitamide AS70 NT VN6703

Polyamide 66

Product Description

Vitamide AS70 NT VN6703 is a Polyamide 66 material.

Appearance Natural Color

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (275 °C/0.325 kg)	5.0	g/10 min	ISO 1133
Density	1.13	g/cm ³	ISO 1183
Density - Specific Gravity	1.13	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	75	MPa	ASTM D638
Tensile Stress at Yield	75	MPa	ISO 527-2
Tensile Strain at Break	30	%	ISO 527-2
Flexural Modulus	2800	MPa	ISO 178
Tensile Elongation at Break	30	%	ASTM D638
Tensile Modulus	3000	MPa	ASTM D638
Flexural Stress	105	MPa	ISO 178
Flexural Strength	105	MPa	ASTM D790
Impact			
Charpy Impact Strength - Notched	4.5	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched	No Break		ISO 179
Notched Izod Impact Strength, (Type 1, Notch A)	5.0	kJ/m ²	ISO 180
Hardness			
Shore Hardness	84		ISO 868
Thermal			
Deflection Temperature Under Load Unannealed (0.45 MPa)	190	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	70	°C	ISO 75-2/A
Deflection Temperature Under Load Unannealed (264 psi)	70	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	190	°C	ASTM D648
Melting Temperature	260	°C	ISO 1218
Peak Melting Temperature	260	°C	ASTM D2117
Coefficient of Linear Thermal Expansion (CLTE), Flow	7E-05	cm/cm/°C	ASTM D696
Electrical			
Dielectric Strength	28	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	600	V	ASTM D3638
(Solution A)	600	V	IEC 60112

Surface Resistivity	1E+15 ohm	ASTM D257
Flammable		
Oxygen Index	27 %	ASTM D2863
Additional Information		
Water Absorption 24h/23C	1.5 %	ISO 62
Water Absorption at 24 hrs	1.5 %	ASTM D570
Water Absorption at Sat.	8 %	ASTM D570
Water Absorption Sat/23C	8 %	ISO 62
UL Information		
Flame Rating	V-2	UL 94