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TECHNYL®



TECHNICAL DATA SHEET

TECHNYL C 316 NC

(Previously DOMAMID 6MV 303 NC)

Polyamide 6, medium viscosity, for injection moulding, natural color

General

Feature	Medium viscosity
Polymer type	PA6 (Polyamide 6)
Processing technology	Injection molding
Certification	RoHS

Product identification

ISO 1043 abbreviation	PA6
ISO 16396 designation	PA6,M1,S18-030

Physical properties						
Density		ISO 1183	g/cm³	1.13		
Humidity absorption	T=23°C, 50% RH	ISO 62	%	3		
Molding shrinkage, parallel		ISO 294-4, 2577	%	1.4 - 1.6		
Molding shrinkage, normal		ISO 294-4, 2577	%	1.4 - 1.6		
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm³/10 min	45		
Viscosity number	96% H2SO4	ISO 307	cm³/g	190		

Mechanical properties dam / cond.* Tensile modulus 1 mm/min ISO 527-1/-2 MPa 2800 / 1700 Stress at break 50 mm/min ISO 527-1/-2 MPa 50 / 65 Yield stress ISO 527-1/-2 MPa 80 / 20 50 mm/min Yield strain 50 mm/min ISO 527-1/-2 % 4 / 4.5 Flexural modulus, ISO 178 2 mm/min ISO 178 MPa 2500 / 950 Charpy impact strength, +23°C +23°C ISO 179/1eU kJ/m^2 NB/-Charpy notched impact strength, +23°C +23°C ISO 179/1eA kJ/m² 7/-

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	Condition			
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	65
Electrical properties			'	
· ·				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Electrical properties Volume resistivity Surface resistivity			-	
		IEC 62631-3-1 IEC 62631-3-1	ohm.m ohm	1E+013 1E+014

Test run at 23°C if not differently specified, DAM state (dry as moulded). *: conditioned according to ISO 1110

Processing conditions

Drying temperature/time	$75-85^{\circ}\text{C}$ / 2-4h (with dew point of dried air < -30 $^{\circ}\text{C}$)
Recommended melt temperature	240 - 280 °C
Recommended mould temperature	60 - 80 °C

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.

Disclaimer

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