

TECHNICAL DATA SHEET

TECHNYL A 239L1 V30 RD 3202

(Previously DOMAMID 66G30I1H1UV1)

Polyamide 66, 30% glass fiber reinforced, heat-aging stabilized, UV-stabilized, impact modified, for injection moulding

General

Feature	Heat-aging stabilized	Impact modified
Polymer type	PA66 (Polyamide 66)	
Processing technology	Injection molding	
Certification	RoHS	

Product identification

ISO 1043 abbreviation	PA66-I-GF30
ISO 16396 designation	PA66-I,GF30,M1HL1,S14-080

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	1.34
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.3 - 0.5
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8 - 1
Melt volume-flow rate, MVR, 5.0 kg	275°C, 5kg	ISO 1133	cm ³ /10 min	50
Viscosity number	96% H2SO4	ISO 307	cm ³ /g	145

Mechanical properties

				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	8400 / -
Stress at break	5 mm/min	ISO 527-1/-2	MPa	130 / -
Strain at break	5 mm/min	ISO 527-1/-2	%	3 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8000 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	180 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	65 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	15 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	60 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	15 / -

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	262
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1E+013
Surface resistivity		IEC 62631-3-1	ohm	1E+013
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

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

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Recommended melt temperature	270 - 290 °C
Recommended mould temperature	90 - 110 °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.

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