TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL C 236 V35 BK Z

TECHNYL C 236 V35 BK Z is a polyamide 6 reinforced with 35% of glass fiber, with improved impact resistance, for injection moulding. This grade offer a high impact strength and good mechanical properties.

General

Feature	Impact resistant	
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card
Applications	Consumer good application Wire & Cable	Industrial Applications
Colors available	Black	
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA6-GF35

	Condition	Standard	Unit	Value
Physical properties				
Density		ISO 1183	g/cm³	1.41
Water absorption	24 hr, 23°C	ISO 62	%	0.9
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9700 / -
Stress at break		ISO 527-1/-2	MPa	160 / -
Strain at break		ISO 527-1/-2	%	3.6 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8600 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	243 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	86 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	15 / -
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	222

Burning behaviour

	Condition	Standard	Unit	Value
UL Yellow Card availability	Click here to have access to the UL Yellow Card → QMFZ2.E44716			
Flammability, 0.75 mm	0.75 mm	UL 94		HB

**: conditioned according to ISO 1110*

Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	230 - 235 °C
Middle temperature	235 - 240 °C
Front temperature	240 - 250 °C
Recommended mould temperature	60 - 90 °C

Injection notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C. Recommended time 2-4h.

Injection advice

For reinforced polyamides, Domo recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.

Disclaimer