



TECHNICAL DATA SHEET

TECHNYL C 219 V35 RD 3140

Polyamide 6, 35% glass fiber reinforced, heat-aging stabilized, for injection moulding

General

Feature	Heat-aging stabilized	
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoHS EC 1907/2006 (REACH)	UL-Yellow Card
Colors available	Grey	Red
Forms	Pellets	

Product identification

ISO 1043 abbreviation	PA6-GF35
ISO 16396 designation	PA6,GF35,M1H,S14-110

Physical properties				
Density		ISO 1183	g/cm³	1.41
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.2 - 2.4
Water absorption	24 hr, 23°C	ISO 62	%	1.4 - 1.5
Water absorption, saturation			%	5.3

Mechanical properties dam / cond.* 10800/-Tensile modulus 1 mm/min ISO 527-1/-2 MPa Stress at break ISO 527-1/-2 MPa 185/-3/-Strain at break ISO 527-1/-2 % Charpy impact strength, +23°C +23°C ISO 179/1eU 100 / kJ/m² +23°C ISO 179/1eA kJ/m² 9/-Charpy notched impact strength, +23°C +23°C 90/-Izod impact strength, +23°C ISO 180/1U kJ/m² Izod notched impact strength, +23°C +23°C ISO 180/1A kJ/m² 9/-





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			Value
Thermal properties			

Inermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	220
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	215

Burning behaviour

UL Yellow Card availability 🕕	Click here to have access to the UL Yellow Card \rightarrow E170540		
Flammability, 0.75 mm	0.75 mm	UL 94	НВ
Flammability, 1.5 mm	1.5 mm	UL 94	НВ
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302	<100

^{*:} 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	240 - 270 °C		
Recommended mould temperature	80 - 100 °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. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.

Disclaimer

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