TECHNYL®

DOMO caring is our formula

TECHNICAL DATA SHEET

TECHNYL XA 1081 BK 2N

TECHNYL XA 1081 BK 2N is suitable for extrusion of pipes with large diameter and thickness.

General

Polymer type	PA66	
Certifications	RoHS	EC 1907/2006 (REACH)
Applications	industrial applications	piping
Colors available	black	
Forms	pellets	
Processing technology	extrusion	extrusion of pipes

Product identification

ISO 1043 abbreviation	PA66-GF30
ISO 16396 designation	PA66-GF30,E,S14-080

Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm³	1.37
Humidity absorption	T=23°C, 50% RH	ISO 62	%	3.0 - 3.2
Water absorption	24 hr, 23°C	ISO 62	%	1.2 - 1.3

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	Condition	Standard	Unit	Value
Mechanical properties				**dam / cond.***
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	8500 / -
Stress at break		ISO 527-1/-2	MPa	145 / -
Strain at break		ISO 527-1/-2	%	3 / -
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	7500 / -
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	205 / -
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	65 / -
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	13 / -
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	60 / -

: conditioned according to ISO 1110

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	260
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	246

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 1.5 mm	1.5 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100 mm*/min

Processing conditions	
Drying temperature/time	80
Suggested max moisture	0.2 %
Feed zone temperature for extrusion	250 - 260 °C
Compression zone temperature for extrusion	255 - 260 °C
Front zone temperature for extrusion	260 - 265 °C