GF Piping Systems

System specification

PROGEF Natural

Piping systems in unpigmented polypropylene

Economical and pure system solutions for chemical sanitized water application and abrasive fluids

PROGEF Natural – System specification

Material	Material	Polypropylene random copolymer
	Colour	pigment-free, transparent
	Density	~0.90 g / cm^3 (ISO 1183 / ASTM D 792)
	Thermal expansion coefficient	0.15 mm / mK (DIN 53752)
	E-modulus	900 N / mm^2 (ISO 527 / ASTM D 790)
	Thermal conductivity	0.23 W / mK (EN 12664)
	Surface resistivity	› 10^{16} Ω (IEC 60093)
Dimension	d20-d110 in accordance with EN ISO 15494	
Pressure rating	Pipes / fittings / diaphragm valves:	d20-d63 SDR11, PN10, c = 2.0
		d75-d110 SDR17.6, PN6, c = 2.0
Temperature rating	From 0 °C to 80 °C	
Production	Fittings / valves: injection moulded	Pipes: extruded
Surface condition	Inner surface Ra < 1 µm (39 µin)	
Product marking	Fittings, pipes and valves are embossed with a permanent identification during the production process to ensure full traceability.	
	Process to ensure full traceability	Lot No
		Material
		Dimension
		Pressure rating
Testing and inspection (EN ISO 15494)	Inclusions	
	Visual inspection	
	Surface finish	
	Dimension tolerance	
	Pressure testing	
	Full product range passed the Initial Type Test (ITT)	
Material- and product approvals [1]	FDA CFR 21 177.1520	
	USP 25 class VI (physiological non-toxic)	
Fusion technology	BCF Plus, bead and crevice free fusion	
	IR Plus, infrared fusion (DVS 2207-6)	
	Butt fusion (DVS 2207-11)	
Documentation[2]	Certificate of conformance with FDA, USP	
	EN 10204 2.2	
	EN 10204 3.1	
	ASME BPE	
Packaging	Pipes	Capped & single bagged
	Fittings / valves	Single bagged
Labeling	Brand name	
	Product description	
	Code number	
	Material	
	Dimension	
	Approvals	
Main applications	Uses include cost effective, pure distribution of DI-water and critical biological fluids where chemical sanitisation is needed. **B**ead and **C**revice **F**ree jointing and minimal metallic leachout ensure the highest product quality. Highly resistant to impact, abrasion and many chemicals make it ideal for slurries transportation in the semiconductor industry.	

[1] For the thermoplastic material only
[2] On request

More information

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GFDO_FL_00066_EN (02.21)