

System specification

PROGEF Plus

Piping systems in polypropylene



The piping system with the completely controlled process

PROGEF Plus – System specification

Material	Material	Beta PP-H 100 (Beta Polypropylene Homopolymer)
	Colour	RAL 7032 pebble grey
	Density	~0.90 g / cm ³ (ISO 1183 / ASTM D 792)
	Thermal expansion coefficient	0.16-0.18 mm / mK (DIN 53752)
	E-modulus	1300 N / mm ² (ISO 527 / ASTM D 790) 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-d315 in accordance to EN ISO 15494
Pressure rating	Pipes / fittings / diaphragm and ball valves	d20-d315 SDR11, PN10, c = 2.0
		d50-d315 SDR17.6, PN6, c = 2.0
	Butterfly valves	d63-d225, PN10
Temperature rating	From 0 °C to 80 °C (32 °F – 176 °F)	
Production	Fittings / valves	Injection moulded
	Pipes	Extruded
	Treatment	Every component is specially cleaned according to a process defined by GF. Pipes and fittings are silicon-, oil- and dustfree. Additional specifications for valves. Products especially suitable for the paint and microelectronics industry.
Surface condition	Inner surface Ra m 1.0 µm (39 µin) for components d20-d110 Inner surface Ra m 1.5 µm (59 µin) for components d125-d 315	
Product marking	All components are embossed with a permanent identification during the production process to ensure full traceability.	
		Lot No
		Material
		Dimension
Testing and inspection (EN ISO 15494)		Pressure rating
	Visual inspection	
	Surface finish	
	Dimension / tolerance	
	Pressure testing	
	Full product range passed the Initial Type Test (ITT)	
Material- and product approvals / conformance ⁽¹⁾	FDA CFR 21 177.1520	
	USP 25 class VI (physiological non-toxic)	
Fusion technology	IR Plus, infrared fusion (DVS 2207-6)	d20-d225
	Butt fusion (DVS 2207-11)	d20-d315
Documentation ⁽²⁾	EN 10204 2.2 / EN 10204 3.1	
Packaging	Pipes, fittings and valves, each component double bagged	
Labeling	Brand name	
	Product description	
	Article number	
	Material	
	Dimension	
	Standards and approvals	
Main applications	Due to the special treatment, PROGEF Plus piping systems are suitable for economical delivery of ultrapure water in semiconductor and TFT / FPD applications and ensure high quality in the paint industry. Highly resistant to impact, abrasion and many chemicals.	

⁽¹⁾ For the thermoplastic material only
⁽²⁾ On request

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