

PROGEF Natural → packed to preserve value



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→ Completely
 Controlled Process

System Specification

PROGEF Natural

Piping Systems in

unpigmented Polypropylene



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

+GF+

PROGEF Natural – System Specification

Material	Polypropylene Random Copolymer
Colour	Unpigmented, translucent
Density	-0.90g/cm ³ [ISO 1183 / ASTM D 792]
Linear expansion coefficient	0.15 mm/m °K [DIN 53752]
E-modulus	900 N/mm ² [ISO 527/ASTM D 790]
Thermal conductivity	0.23W/mK [EN 12664]
Surface resistivity	> 10 ¹⁶ Ω [IEC 60093]
Dimension	d20-d63 in accordance with EN ISO 15494
Pressure Rating	Pipes/Fittings/Diaphragm valves: d20-d63 SDR11, PN10, c=2.0
Temperature Rating	from 0 °C to 80 °C [<60 °C for valves] (32 °F-176 °F)
Production	Fittings/valves: injection moulded Pipes: extruded
Surface Finish	Inner surface Ra ≤ 1 µm (39 µin)
Marking	Fittings, pipes and valves are embossed with a permanent identification during the production 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)
Approvals/Conformance ⁽¹⁾	FDA CFR 21 177.1520 USP 25 class VI (physiological non-toxic)
Welding 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
Packing	Pipes: Capped & single bagged Fittings/valves: Multiple components single bagged in specified bag
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 thermoplastic material only

⁽²⁾ On request