

Compound GPlast™ 643 USP Class VI (UV)
POLYMER TYPE: Perfluoroelastomer FFKM75 (+/-5°)

Physical Properties

Property	Test Method	Units	Typical Values
COLOUR			White
HARDNESS	ISO 48	°IRHD	74
TENSILE STRENGTH	ISO 37	MPa	17.2
MODULUS @ 100%	ISO 37	MPa	9.5
ELONGATION @ BREAK	ISO 37	%	152
TEAR STRENGTH	ISO 34	N/mm	16.2
SPECIFIC GRAVITY	ISO 2781	g/cm ³	2.42
COMPRESSION SET VALUE IN AIR 25% STRAIN – 24HRS @ 204°C	ISO 815	%	9.2

Description

This white material has been specifically developed for use with a wide range of potent active pharmaceutical ingredients (API's) and aggressive cleaning agents, being especially suited to withstand steam-in-place (SIP) and clean-in-place (CIP) procedures. It has excellent temperature resistance -10°C (14°F) to +230°C (+446°F). This material is formulated to meet the requirements of FDA regulations and is intended for repeated use in food processing equipment and to be in contact with food. It meets the requirements of USP Class VI, having passed the United States Pharmacopoeia (USP) Biological Reactivity test, IN VIVO.

Do not use any GPlast™ grade with molten alkali metals.

Chemical Resistance

1. Suitable, little or no effect. 2. Minor to moderate effect, not maximum resistance. 3. Moderate to severe effect – may be useful in some limited applications. 4. Unsuitable and not recommended – severe effect.

Chemical Group	Rating
Aromatics / Aliphatic Oils	1
Acids	1
Alkalis	1
Alcohols	1
Aldehydes	1
Amines	1
Ethers	1
Ethylene Oxide	1
Esters	1
Ketones	1
Propylene Oxide	1
Steam/Hot Water	1
Strong Oxidisers	1

More detailed information available on request.

Since development and improvement of compounds is a continuing process, Gapi reserves the right to modify their composition and characteristics.
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