



PRODUCT DATA SHEET
MD441 – 22/11/2022

Page 1 of 1

Compound **GPlast™ 640 FDA/USP (UU)**

POLYMER TYPE: Perfluoroelastomer FFKM75 (+/-5°)

Physical Properties

Property	Test Method	Units	Typical Values
COLOUR			White
HARDNESS	ISO 48	°IRHD	78
TENSILE STRENGTH	ISO 37	MPa	17.8
MODULUS @ 100%	ISO 37	MPa	10.8
ELONGATION @ BREAK	ISO 37	%	168
TEAR STRENGTH	ISO 34	N/mm	24.8
TR10	ISO 2921	°C	-3
SPECIFIC GRAVITY	ISO 2781	g/cm3	2.38
COMPRESSION SET VALUE IN AIR 25% STRAIN – 24HRS @ 204°C	ISO 815	%	32.9

Description

This white material has been specifically developed for use with active pharmaceutical ingredients (API's), aggressive cleaning agents, steam-in-place (SIP) procedures and clean-in-place (CIP) procedures. It is intended for repeated use in food processing equipment and to be in contact with food. This material does not contain any Animal Derived Ingredients (ADI's). Tested to comply with the following standards; 21CFR177.2600 (e & f), USP <87> & USP <88> (USPVI), USP <88> Intracutaneous Injection. Do not use any GPlast™ grade with molten alkali metals. Service Temperatures +230°C (+446°F) to -17°C (+1°F).

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	2
Alkalis	1
Alcohols	1
Aldehydes	1
Amines	1
Amines >70°C	2
Ethers	1
Ethylene	1
Esters	1
Ketones	1
Propylene Oxide	1
Steam/Hot Water	1
Strong Oxidisers	1

More detailed information available on request.