



**Compound GPlast™ 641 FDA White (UR)**  
**POLYMER TYPE: Perfluoroelastomer FFKM80 (+/-5°)**

**Physical Properties**

Property	Test Method	Units	Typical Values
COLOUR			White
HARDNESS	ISO 48	°IRHD	77
TENSILE STRENGTH	ISO 37	MPa	11.6
MODULUS @ 100%	ISO 37	MPa	6.4
ELONGATION @ BREAK	ISO 37	%	178
TEAR STRENGTH	ISO 34	N/mm	19.7
SPECIFIC GRAVITY	ISO 2781	g/cm <sup>3</sup>	2.38
COMPRESSION SET VALUE IN AIR 25% STRAIN – 24HRS @ 204°C	ISO 815	%	17.9

**Description**

This White FDA material provides excellent temperature resistance up to +260°C (+500°F) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers. Developed to comply with the requirements of FDA 21 CFR 177.2600. Along with all our GPlast™ range, this grade is suitable for use in a wide range of applications where other polymers are not suitable. Do not use any GPlast™ grade with molten alkali metals. Service Temperatures +260°C (+500°F) to -15°C (+5°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	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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**Seal & Design  
Able Division**  
5533 Steeles Avenue West Unit 11  
Toronto, Ontario M9L 1S7  
Ph: (416) 741-0750  
Gasket@AbleSealAndDesign.com

**Seal & Design  
Corporate Headquarters**  
4015 Casilio Parkway  
Clarence, NY 14031  
Ph: (716) 759-2222  
Info@SealAndDesign.com  
[www.SealAndDesign.com](http://www.SealAndDesign.com)

**Seal & Design  
Higbee Division**  
6741 Thompson Rd N  
Syracuse, NY 13221  
Ph: (315) 432-8021  
Sales@Higbee-Inc.com