

TRP COMPOUND REFERENCE N°: T119

Customer Reference

TRPlast™ 642 – FDA Compliant

POLYMER TYPE: Perfluoroelastomer (FFKM)

DESCRIPTION:

This Black FDA 21CFR177.2600 compliant 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.

Along with all our TRPlast™ range, this grade is suitable for use in a wide range of applications where other polymers are not suitable.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUES	TEST STANDARD
HARDNESS (IRHD)	75 IRHD	ISO 48
TENSILE STRENGTH (Mpa)	18.6 MPa	ISO 37
MODULUS @ 100% (Mpa)	10.1 MPa	ISO 37
ELONGATION @ BREAK (%)	178 %	ISO 37
TEAR STRENGTH (N/mm)	26.05 N/mm	ISO 34
SPECIFIC GRAVITY	2.02	ISO 2781
72 HRS COMPRESSION SET @ 204°C UNDER 25 % STRAIN	20 %	ASTM D1414

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
Alcohol's	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 upon request

DATA SHEET:

ISSUE DATE:

ISSUE N°:

ISSUED BY:

GM84

10/11/2006

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