

TRP COMPOUND REFERENCE N°: T105

Customer Reference

TRPlast™ ED 105 – Explosive Decompression

**POLYMER TYPE:** Perfluoroelastomer (FFKM)

**DESCRIPTION:**

This black explosive decompression material provides excellent temperature and high-pressure resistance up to + 250°C (+482°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)	90 IRHD	ISO 48
TENSILE STRENGTH (Mpa)	23 MPa	ISO 37
MODULUS @ 100% (Mpa)	N/A	ISO 37
ELONGATION @ BREAK (%)	80 %	ISO 37
TEAR STRENGTH (N/mm)	29.9 N/mm	ISO 34
SPECIFIC GRAVITY	1.92	ISO 2781
72 HRS COMPRESSION SET @ 204°C UNDER 25 % STRAIN	22 %	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:

GM85

ISSUE DATE:

10/01/2002

ISSUE N°:

1

ISSUED BY:

A.T.