para-Phenylene Diisocyanate (PPDI)

para-Phenylene Diisocyanate (PPDI) · RS-PPDI · CAS 104-49-4 · Technical Data Sheet · RawSource · rawsource.com/product/para-phenylene-diisocyanate/

CAS NO.	PRODUCT CODE	PRODUCT TYPE
104-49-4	RS-PPDI	Diisocyanate · isocyanate co-reactant

p-Phenylene diisocyanate (PPDI) is supplied as white crystals. It is mainly used for special casting polyurethane elastomers and thermoplastic polyurethane. In a PPDI-based polyurethane elastomer, the low viscosity of the prepolymer and a low reaction rate with a chain extender give sufficient service time, and an elastomer of medium hardness, particularly a hardness of about 80 – 90A, can be prepared.

DISTRIBUTED BY
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GENERAL INFORMATION

Chemical name	p-Phenylene diisocyanate
Molecular formula	$C_8H_4N_2O_2$

TYPICAL PROPERTIES

Density	1.17 g/cm³ at 20 °C

Typical values are representative of the product and are not specifications.

RELEASE SPECIFICATION

PARAMETER	SPECIFICATION	TYPICAL
Appearance	White Crystal	Conform
Purity, %, titration	≥99.0 %	99.87 %
Hydrolyzable Chloride, PPM	≤1,000	56
Residual Solvent, PPM	≤2,000	0

Each lot is released against this specification. Lot-specific results are reported on the Certificate of Analysis that ships with every delivery.

KEY FEATURES

- PPDI-based polyurethane elastomers: low prepolymer viscosity and a low reaction rate with a chain extender, giving sufficient service time
- PPDI-based polyurethane elastomers of medium hardness, about 80 – 90A

APPLICATIONS

- Special casting polyurethane elastomers
- Thermoplastic polyurethane

Applications are those stated for the product. Confirm suitability for each formulation by trials.

PACKAGING AND SHELF LIFE

- 112 kg barrel containing 4 tin bags wrapped in a plastic bag
- Shelf life: 12 months from production date.

The information in this Technical Data Sheet is provided for technical evaluation and is believed to be accurate as of the issue date. Typical values are representative and do not constitute a warranty. Binding specifications are those stated on the lot-specific Certificate of Analysis and in the sales contract. Users should verify suitability for their own process and regulatory requirements. Refer to the Safety Data Sheet before handling. Questions: solutions@rawsource.com.