

Technical Data:

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U 205

Two-Component Self-extinguishing Soft PBD-based PU Compound

Product Description

U 205 is a two-component flame retardant, soft, potting and encapsulating PU compound. U 205 has excellent thermal cycling properties and hydrolytic stability, low glass transition temperature and low water permeability.

Features & Benefits

- High flexible
- Low moisture permeability
- Low Tg
- Self-extinguishing UL certified
- High thermal cycling resistivity
- Excellent electrical properties

Applications

Electrical and electronic potting and encapsulation

Typical Uncured Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Base Resins	U 205 (A) UC 138 (B)	PBD Isocyanate
Appearance/Color	U 205 (A) UC 138 (B)	Black Amber
Viscosity @ 25°C, mPa*s per ASTM-D-2196	U 205 (A) UC 138 (B)	2000-4000 150-250
Density @ 25°C, g/cm³	U 205 (A) UC 138 (B)	1.26 ± 0.03 1.20 ± 0.02
Mix Ratio A:B (w/w)	100:10	
Mix Viscosity @ 25°C, mPa*s per ASTM-D-2196	1500-2500	
Work life @ 25°C, min	from 10 to 90	
Curing @ 25°C, hr	24	

Instructions for use:

Stir compound U 205 thoroughly in the original container prior to use

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Color	Black
Hardness, Shore A	30-40
Tensile Strength, ASTM –D-638, MPa	4.0-5.0
Tensile Elongation, ASTM –D-638, %	35-45
Service Temperature, °C	-40 to 90
Flammability Rating, UL certified	UL 94 –V-0

Storage

Store products at 15-35°C for maximum shelf life.

Packaging

Packaging sizes are available from 1L up to 18L pails.

Shelf Life

These products have a shelf- life of 9 months in their unopened original bulk containers.

Limitation of Liability

Except where prohibited by law, Polymer-G and seller will not be liable for any loss or damage arising from the Polymer-G product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.