

# PTFE FLUOROPLAST-4 RX005



**Manufacturer:**  
"HaloPolymer Kirovo-Chepetsk", LLC

**QMS for production is certified:**  
ISO 9001:2015, AS/EN/JISQ 9100, IATF 16949

Fluoroplast-4 RX005 is a virgin PTFE micropowder with an average particle size of up to 14 µm, it can be classified as type II, ASTM D 4894 standard. The product is used to enhance processing or end-use performance properties of host products and base resins.

Fluoroplast-4 RX005 offers an excellent combination of properties:

- Chemical inertness
- Heat resistance
- Low coefficient of friction
- Non-stick characteristics
- Negligible water absorption
- Excellent weather resistance



Properties	Units	Typical Value <sup>1</sup>	Test Method
Appearance		Easily lumping white powder without visible inclusions	Visual <sup>2</sup> (internal method)
Water content, max	% wt	0.02	Gravimetry <sup>2</sup> (internal method)
Bulk density	g/l	200-320	Gravimetry <sup>2</sup> (internal method)
Particle size, average diameter (D50)	µm	1-13	Laser-diffraction analysis <sup>2</sup> (dry dispersion method)
Maximum particle size (D99), max	µm	100	Laser-diffraction analysis <sup>2</sup> (dry dispersion method)
Quantity of particles of not more than 100 µm in size (Q100), min	%	100	ASTM D4894
Melting point (initial / second), ±5°	°C	344 / 327	ASTM D4894

Note:

<sup>1</sup> Typical properties are not suitable for specification purposes. For detailed specification please contact the commercial department

<sup>2</sup> The internal company procedure designed and approved in accordance with current legislation is used for control. The procedure can differ from that in ASTM, ISO, DIN



### Main applications:

- as a dry lubricant.
- for preparation of PTFE dispersions.
- as an additive for plastics and coatings, etc.



### Package:

20 kg cardboard boxes with 2×10 kg PE on wooden pallet boards  
PE vats with 10 or 12.5 kg (net weight) PE bags on wooden pallet boards

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### **Safety Precautions:**

WARNING! VAPORS CAN BE LIBERATED THAT MAYBE HAZARDOUS IF INHALED.

Before using HaloPolymer Fluoroplast-4 (PTFE) read the Material Safety Data Sheet.

Open and use containers only in well-ventilated areas using local exhaust ventilation. Vapors and fumes liberated during hot processing, or from smoking tobacco or cigarettes contaminated with HaloPolymer Fluoroplast may cause flu-like symptoms (chills, fever, sore throat) that may not occur until several hours after exposure and that typically pass within about 24 hours. Vapors and fumes liberated during hot processing should be exhausted completely from the work area; contamination of tobacco with polymers should be avoided. Mixtures with some finely divided metals, such as magnesium or aluminum, can be flammable or explosive under some conditions.



### **Storage and handling:**

is easiest when the resin is uniformly between 21–27°C (70–80°F). Storage conditions should be set accordingly. Cleanliness is a critical requirement for successful use of PTFE. Keep boxes with the resin closed and clean. Good housekeeping and careful handling are essential.



### **Guarantee storage life:**

24 months from the date of manufacture.