

EO/PO Co-Polymers

Block co-polymers – 61–64 moles EO

Product Description

Ethylene Oxide / Propylene Oxide Co-Polymers (Poloxamers/Pluronics) are non-ionic block copolymers used as emulsifiers, foaming agents and solubilizers in pharma and industrial applications.

Certificate of Analysis

HSN Code: 3907.20

CAS Number: 9003-11-6

Classification: Non-ionic Block Copolymer Su

Parameter	Specification	Test Method
Appearance	White to off-white solid / gel (grade dependent)	Visual
Average Molecular Weight	1000–14000 (grade dependent)	GPC
pH (2.5% solution)	5.0–7.5	USP <791>
Water Content	"d 1 %	Karl Fischer
Viscosity	Grade dependent	Brookfield
Cloud Point	Grade dependent (°C in 1% solution)	IP 219
Heavy Metals	"d 2 0 p p m	USP <231>

Physical Properties

Appearance: White to off-white solid / gel (grade dependent)

Molecular Formula: $\text{HO}(\text{C}_2\text{H}_4\text{O})_m(\text{C}_3\text{H}_6\text{O})_n\text{H}$

Molecular Weight: Grade dependent (e.g., Poloxamer 188: ~8400 g/mol)

Solubility: Soluble in water; soluble in many organic solvents

Melting Point: Grade dependent (e.g., Poloxamer 407 melts at ~56°C)

Packing: 25 kg HDPE drums (liquid grades); 25 kg bags / fibre drums (solid grades)

Storage: Store in a cool, dry place. Protect from heat and moisture. Temperature: below 30°C.

Safety & Handling

PPE: Gloves, safety goggles, lab coat

Hazards:

- Low acute toxicity
- Dust may cause mild respiratory irritation