



Exceed™ Vistamaxx™ Exact™

ExxonMobil Signature Polymers offers full polyolefin solutions for IV tubes to meet rigorous industry standards



High transparency



Low kinking



Excellent processability

Data and results presented herein apply specifically to the noted application under this factsheet. Your results may differ depending on factors such as operating conditions, equipment and materials used.

With growing interest in replacing PVC in medical devices and pharmaceutical packaging, Styrene-Ethylene-Butylene-Styrene (SEBS) and silicone have emerged as potential alternatives. However, both materials can be difficult to recycle and SEBS needs compounding. Polyolefins (PO) such as polypropylene, polyethylene and olefin-based elastomers like Vistamaxx™ and Exact™ can be used in formulations designed for recyclability¹.

As regulations such as the Medical Device Regulation (MDR) and EU REACH are phasing out DEHP² plasticizer, manufacturers are seeking compliant alternatives for elastic and transparent applications. ExxonMobil Signature Polymers offers the option through a pure polyolefin approach.

Featuring Vistamaxx performance polymers and Exact polyolefin elastomers, the solution enables the production of tubes for IV (intra venous) packaging that meet demanding requirements.

- Pure polyolefin-based composition
- Maintains tube transparency and mechanical integrity, including low kinking performance



¹ Design features intended to support recyclability. Actual recyclability depends on factors such as local collection, sortation, and recycling infrastructure, as well as the condition and configuration of the product after use. However, access to facilities that accept and process plastic medical waste is limited and not widely available.

² DEHP (Di(2-ethylhexyl) phthalate) -listed in REACH Regulation (EC No 1907/2006) as a Substance of Very High Concern (SVHC) due to its reproductive toxicity. Its use is restricted in many applications, including medical devices.

Tailored formulations to meet diverse industry needs

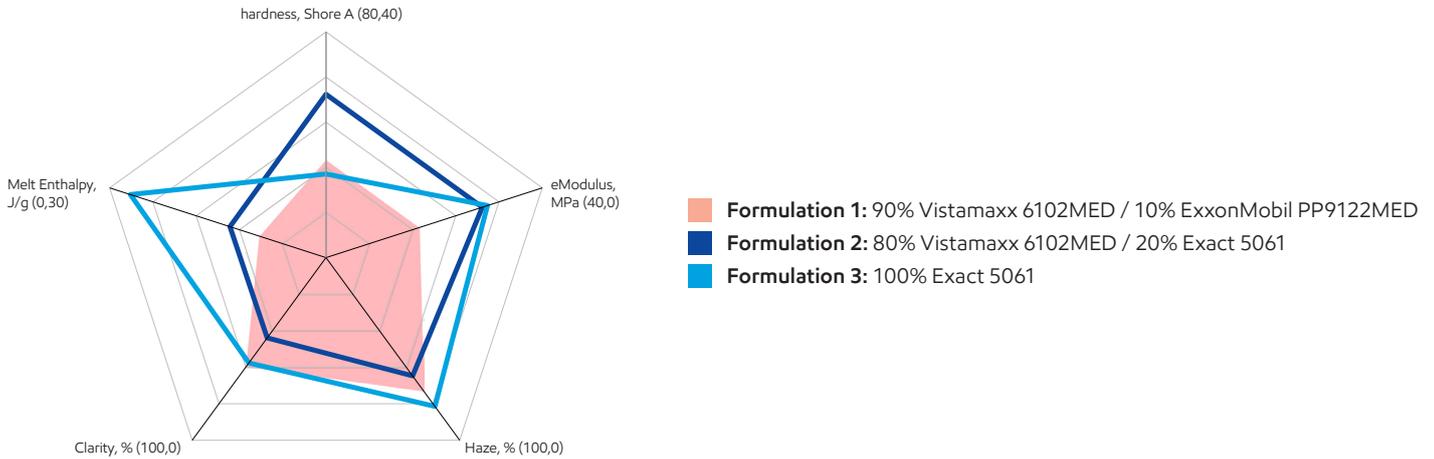
To support the evolving requirements of medical device applications, three PO-based formulations have been developed:

Formulation 1: Vistamaxx™ 6102 + Exceed™ PP9122, offers **excellent flexibility** and **strong optical** properties

Formulation 2: Vistamaxx™ 6102 + Exact™ 5061, designed to **enhance flexibility** even further while maintaining good transparency

Formulation 3: Exact™ 5061, a pure elastomer solution ideal for applications where **optical clarity** is the top priority

The spider chart illustrates how each formulation performs across key attributes.



Graph: Mechanical and optical differences of Vistamaxx 6102MED, PP9122MED versus Vistamaxx 6102MED, Exact 5061 blends and pure Exact 5061 - Data from tests performed by or on behalf of ExxonMobil.

ExxonMobil
Signature Polymers

Bring your impossible

ExxonMobil Signature Polymers was born from the belief that people fuel progress. From automotive and construction to packaging, agriculture, industrial, and beyond, we leverage the scale and reach of ExxonMobil to deliver the insights and innovations that empower our diverse, global partners to take their businesses to new heights. We continuously work to provide the listen-first, service-driven, game-changing collaboration that unlocks opportunities for our partners and advances and business goals.



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