

Welcome to our Webinar

We will start shortly!





Polymer
Solutions



Suspension PVC Breakthroughs: Vestolit's Portfolio of Solutions

November 11, 2025

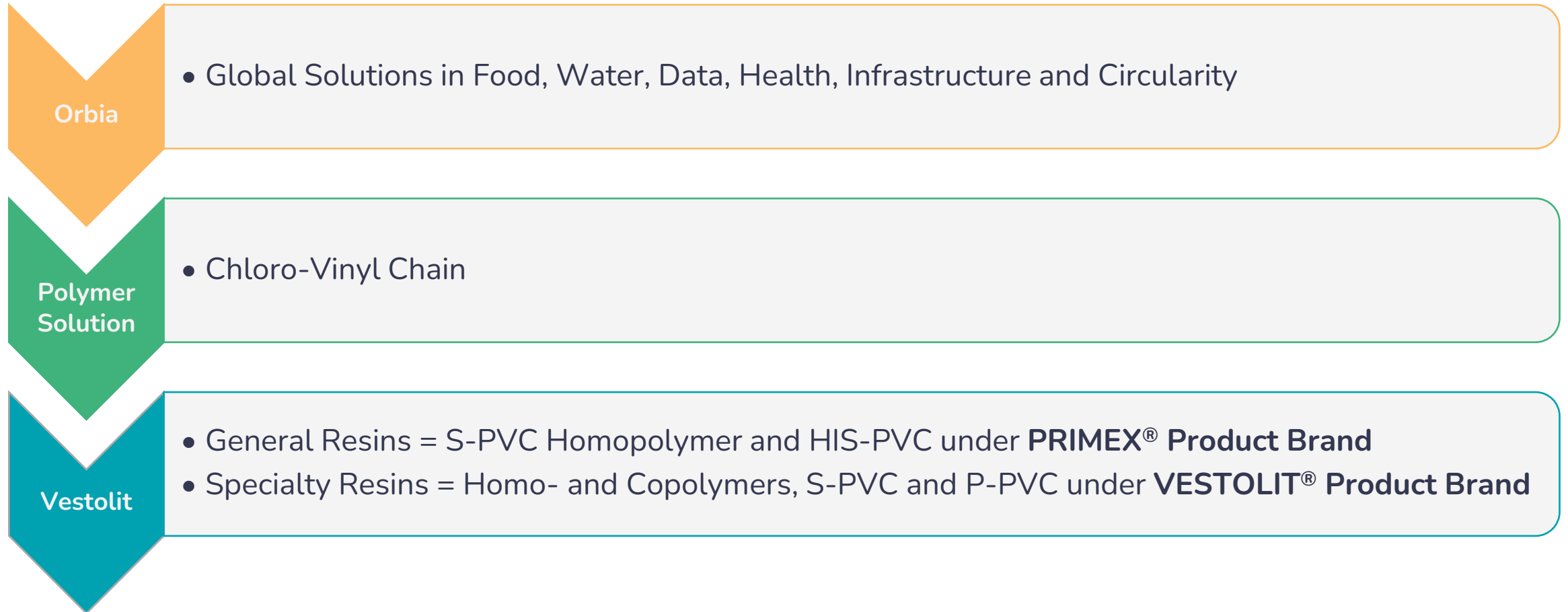


Agenda

- Company Footprint
- Product Range for S-PVC
- Value Offer by Product and Potential Applications
- Customer-Oriented Products



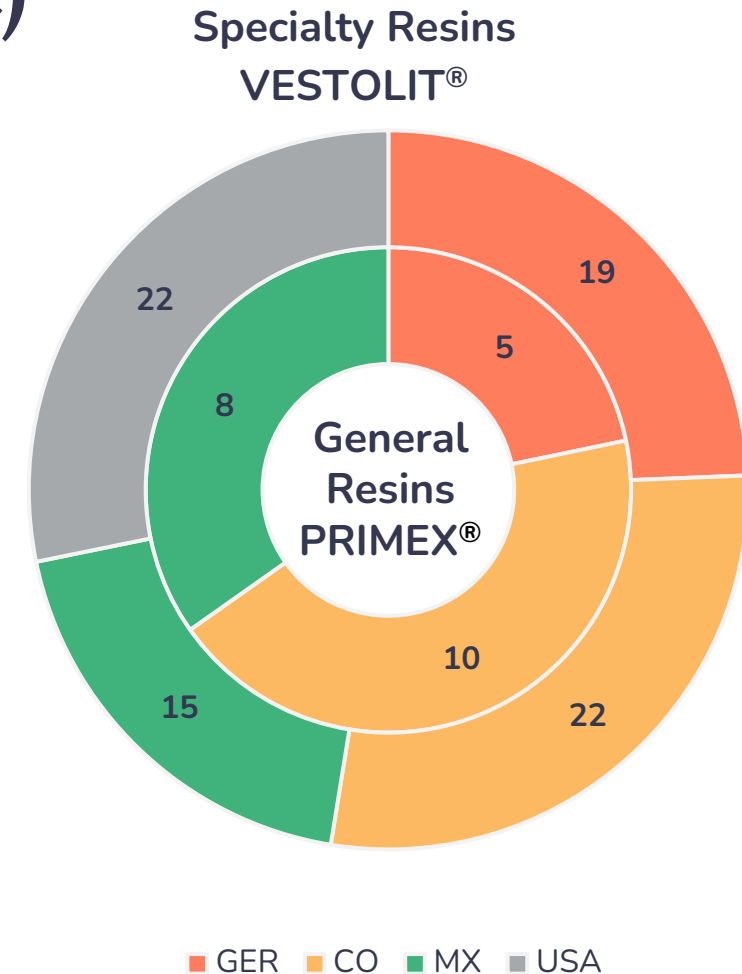
Company Structure



Orbia Polymer Solutions (Vestolit)

Product Portfolio – Active References

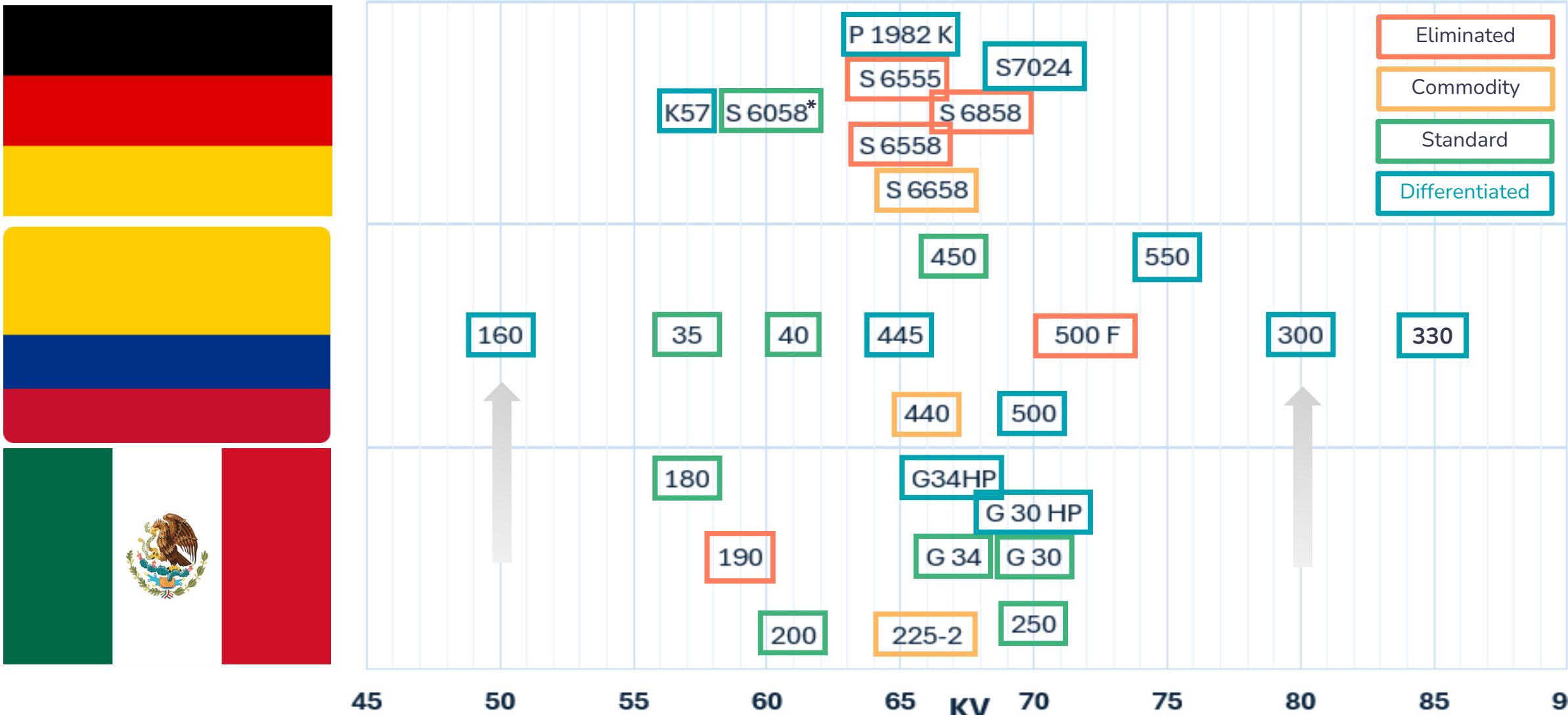
- 101** Specialty Resins and General Resins
- 78** Specialty Resins
- 23** General Resins
- 4** General Resins Recent Developments (<5 years)
- 6** General Resins Products Improved Recently



Type of Products for S-PVC Processing

Product Portfolio Adjustments General Resins - PRIMEX®

7



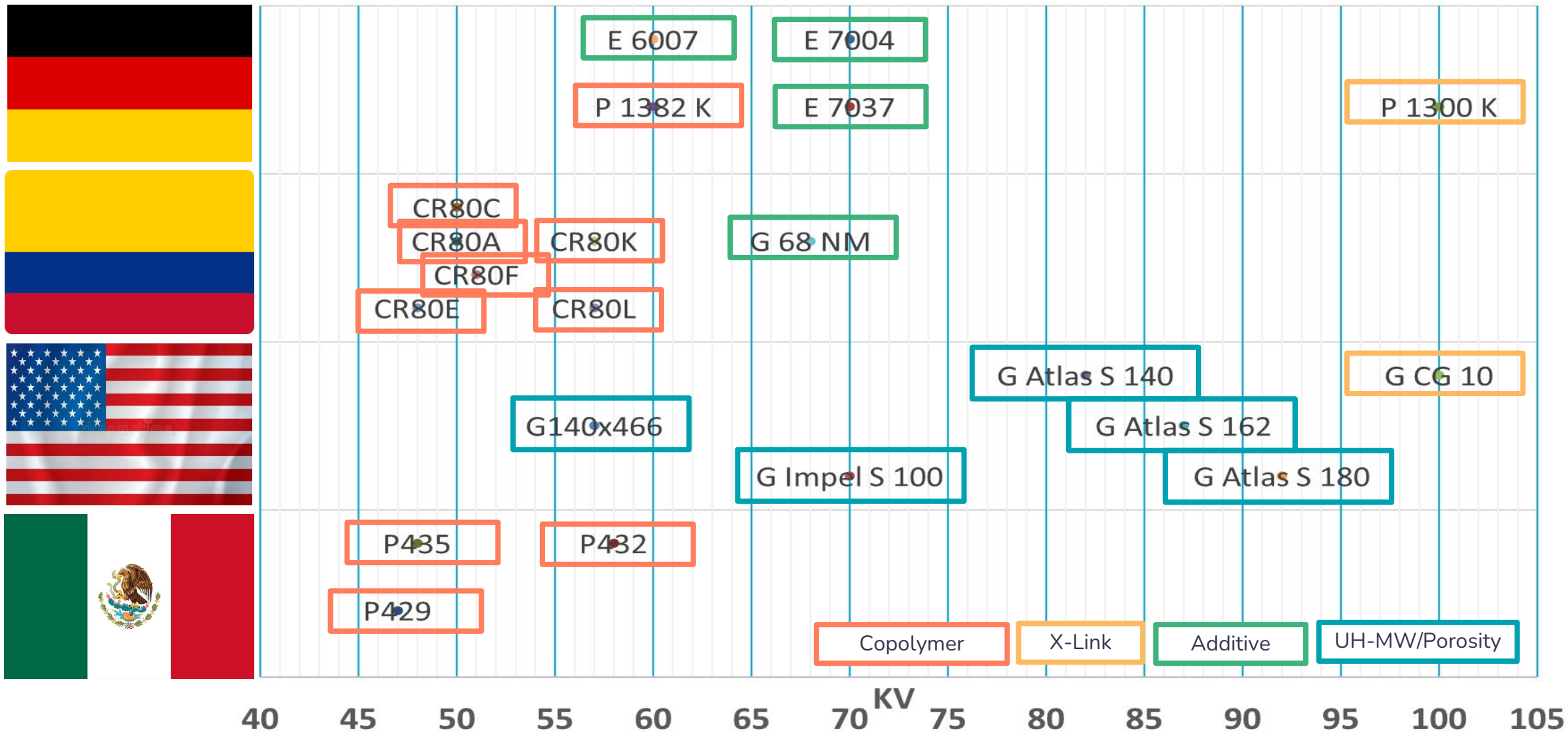
**PRIMEX® S 6024 is an improved version of PRIMEX® S 6058*



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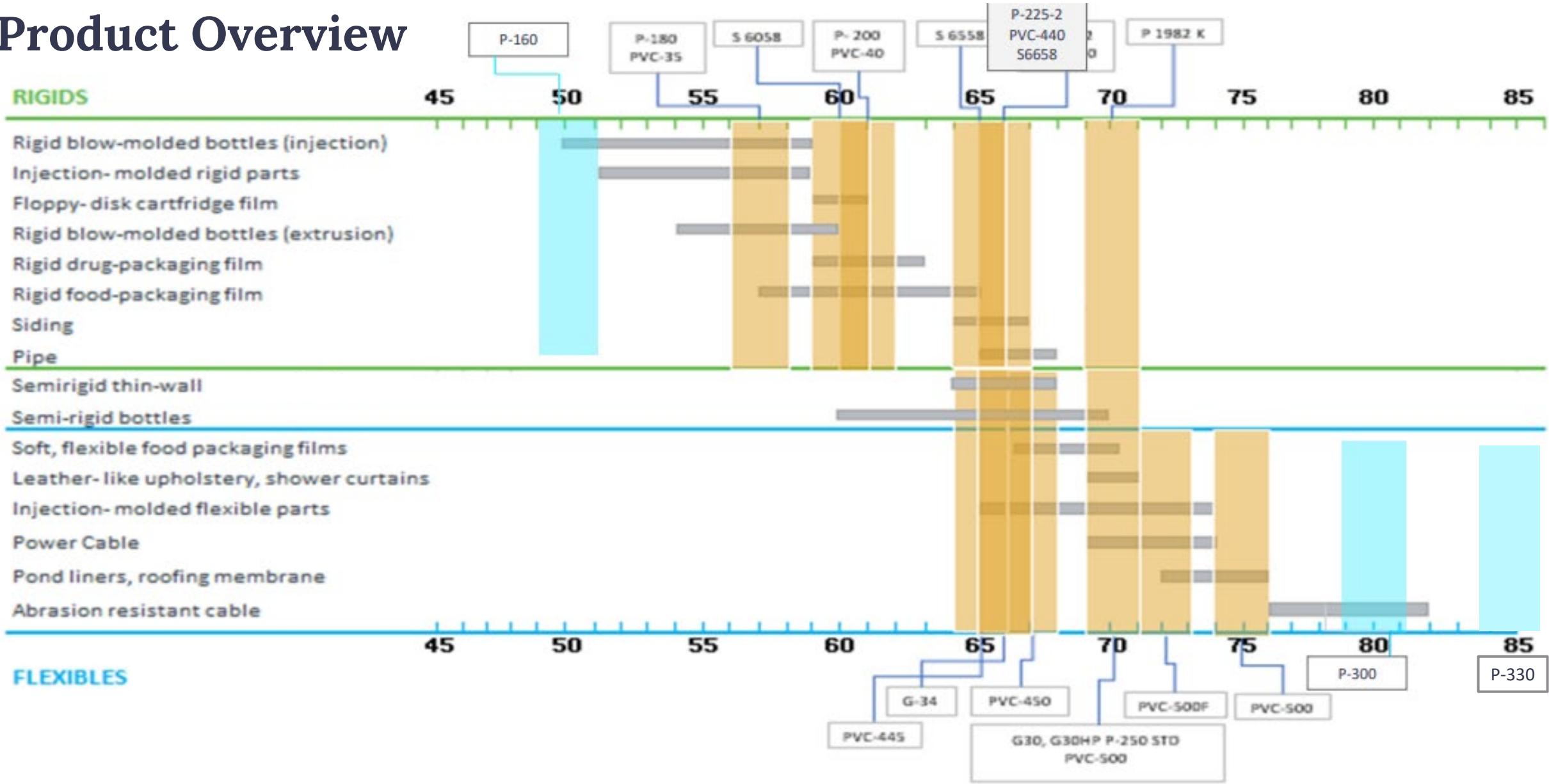
Product Portfolio Specialty Resins



NEW PRODUCTS

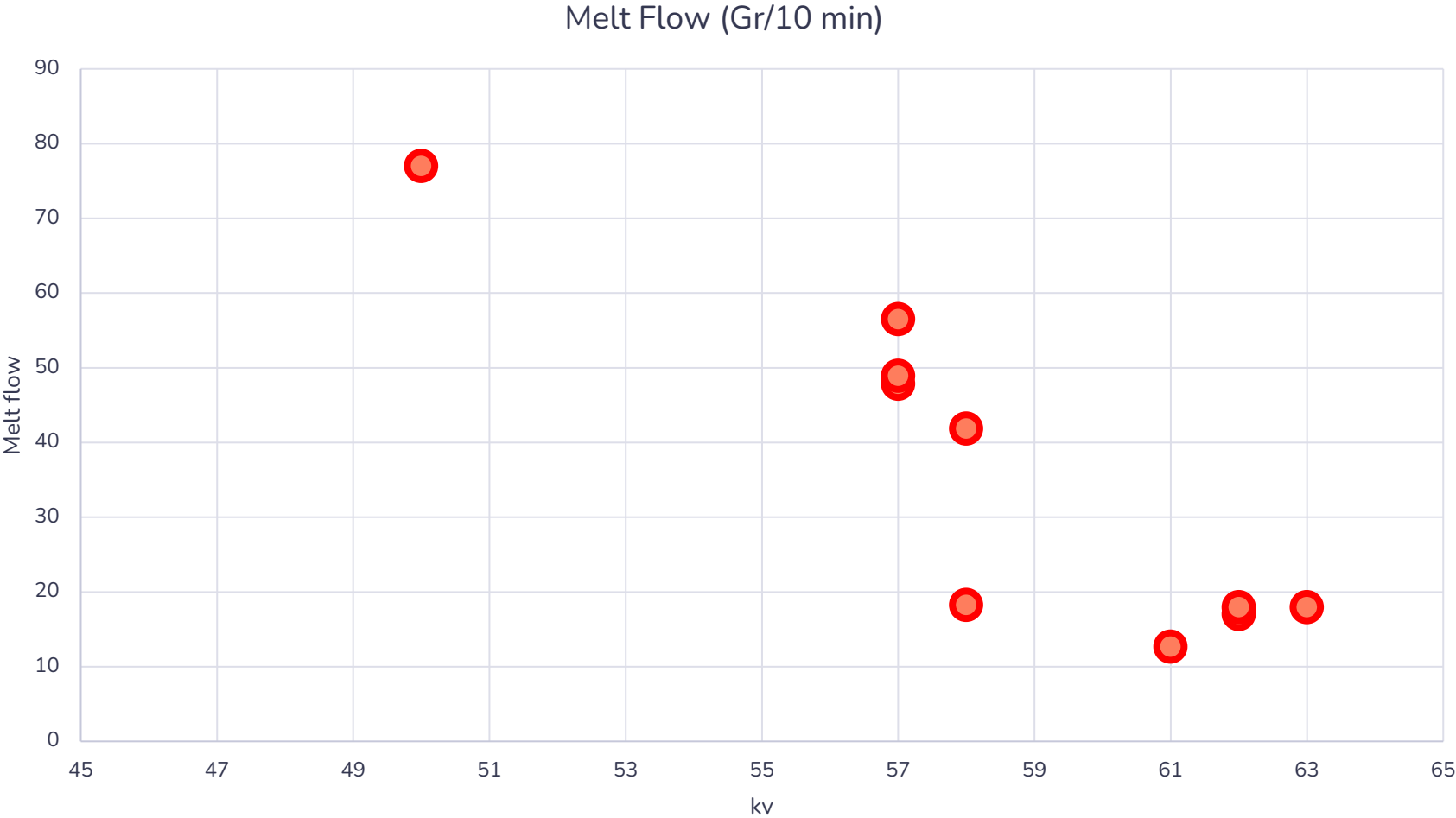
Value Offer for Customers

Product Overview



Melt Flow @ 190°C, 21.6 Kg

PRIMEX® P 160



MELT INDEX – 190°C, 21.6 Kg

Product	MI (Gr/10 min)	Viscosity (pa/s)
STD PRIMEX® PVC 40	17.03	7,571.08
STD PRIMEX® PVC 40 #2	17.96	7,176.05
STD PRIMEX® PVC 35	56.52	2,277.26
COMPETITOR 1 - PRIMEX® PVC 35	47.85	2,690.03
COMPETITOR 1 - PRIMEX® PVC 40	18.25	6,956.13
COMPETITOR 2 - PRIMEX® PVC 40	17.98	7,161.58
COMPETITOR 2 - PRIMEX® PVC 35	41.85	3,094.39
COMPETITOR 3 - PRIMEX® PVC 35	48.94	2,593.13
COMPETITOR 2 - PRIMEX® PVC 40	12.69	10,144.16
PRIMEX® P 160	77.02	1,675.33

PRIMEX® P 160

When to consider a very low molecular weight resin?

- Injection of complex parts: high melt flow
- Energy savings due to lower process temperatures
- Higher process speeds (injection, cooling, etc.)
- Better dispersion in PVC matrix with higher molecular weight (Master batches)
- Material savings by achieving mechanical properties through product structure (more complex: conduflex, thin layers on strong substrate)



Potential Applications

House Appliance

- Injected Complex shapes → Cosmetic packaging
- Thermoformed parts → Potential use in blisters

Carrier

- High volume compounds
- Master batch manufacturers

Profile

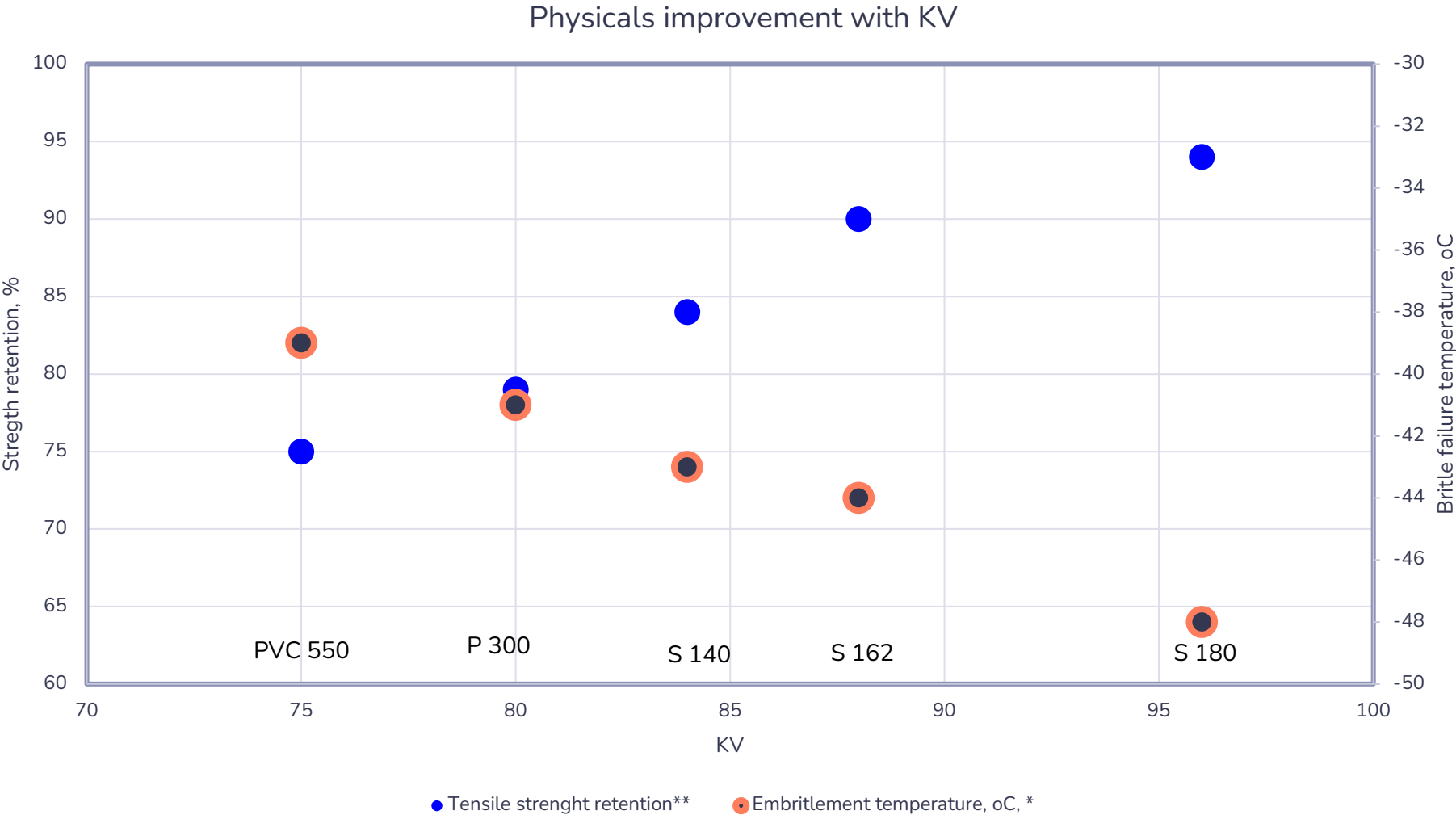
- Foamed profiles
- Thin layer in multi-layer structures → Aesthetic, UV-protected

Flooring

- CVT → filler adhesive (This application is being replaced by LVT)

Special Pipes

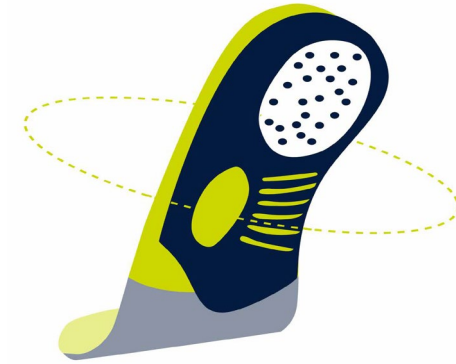
- Flexible conduits → structural resistance



PRIMEX® P 300, PRIMEX® S 140, PRIMEX® P 330, PRIMEX® S 162, PRIMEX® S 180

When to consider a very HMW, High-Porosity Resin?

- Greater potential to achieve superior mechanical properties (tensile strength, greater elongation, lower migration, more flexibility at low temperatures, greater resilience and greater resistance to abrasion and bending).
- Potential material savings by requiring lower thicknesses to achieve the same mechanical properties.
- When high levels of plasticization and mechanical properties are required at the same time.
- Greater resistance to thermal aging (high temperature cables).
- Adsorb HMW plasticizers, fast fusion (+ VESTOLIT® G 140X466, VESTOLIT® G Impel S 100)



Potential Applications

W&C, T2+

- High temperature Automotive Cable

Low Temperature Services

- Hoses → Low/High temperature, Oil resistant

High Mechanical Devices

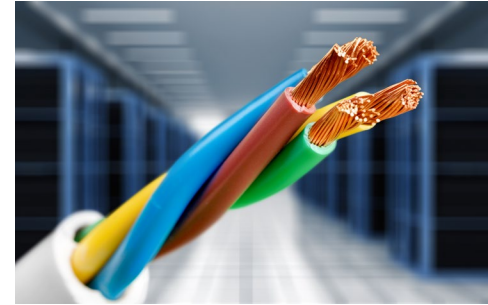
- Seals & Gaskets → Diaphragm in drippers
- Roofing → vs TPO
- Peristaltic pumps → Medicals

Unsupported Automotive Parts

- Replace TPO
- Dashboards, armrest covers

Special Shoes

- Oil station, electrical, low temperature



Additive as Impact Modifier replacement

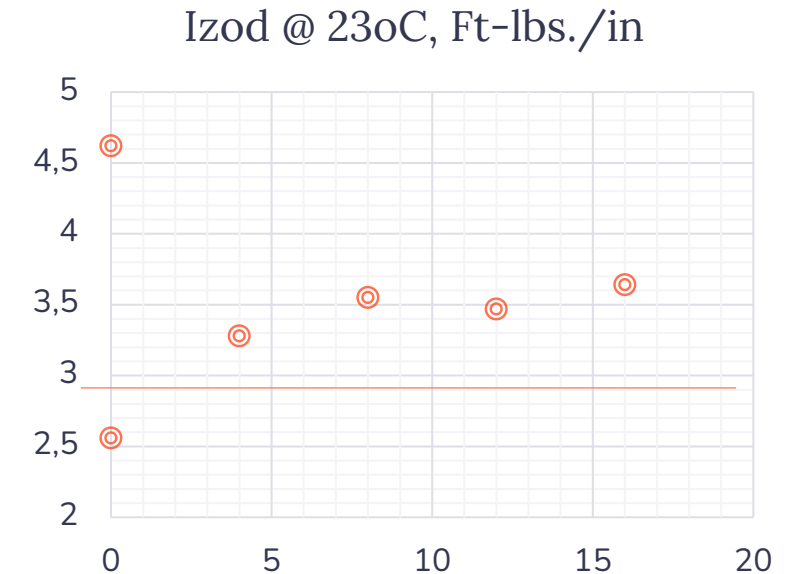
Use special additives from VESTOLIT® to replace part of IM

- Cost reduction in formulation
- Less competitive against CPE

Other Improved properties:

- Melt Homogenization
- No air trap
- Better cutting
- Antistatic

SYSTEM	HDT	IZOD	MELT FLOW	THERMAL STABILITY	COST
CPE	1	3	5	1	5
MBS	2	5	2	4	3
ACR	3	5	1	5	2
PPVC	5	3	4	5	5



When to consider a Copolymer Resin?

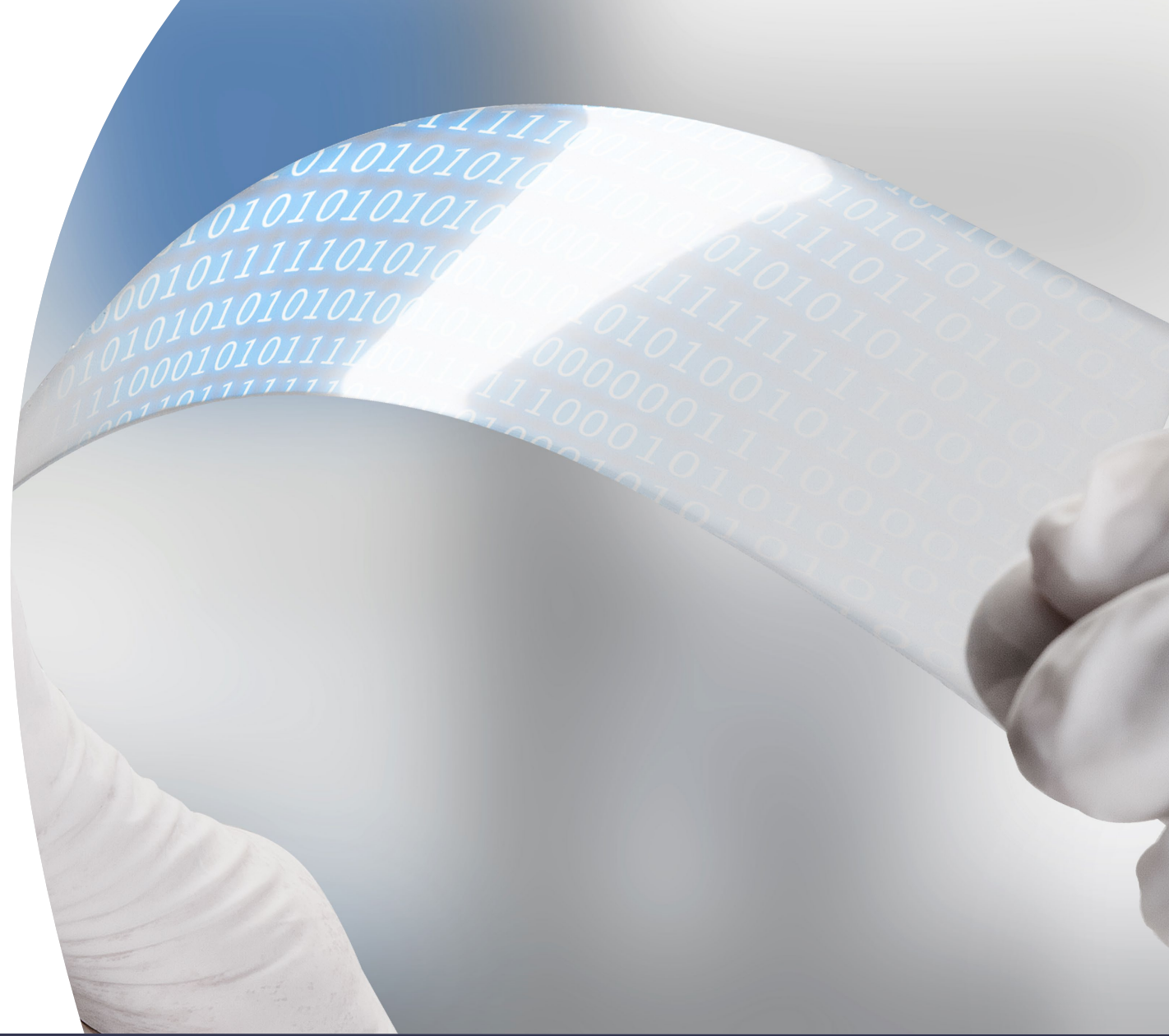
- Greater compatibility, solubility or adhesion
- Internal plasticization without any exudation or migration
- Deep thermoforming or pressing process
- Faster fusion at lower temperatures
- Improve cutting, impact (VESTOLIT® P 1382 K)



VESTOLIT® P 1300 K, VESTOLIT® S 100 BM, VESTOLIT® G CG10

When to consider a X-linked Resin?

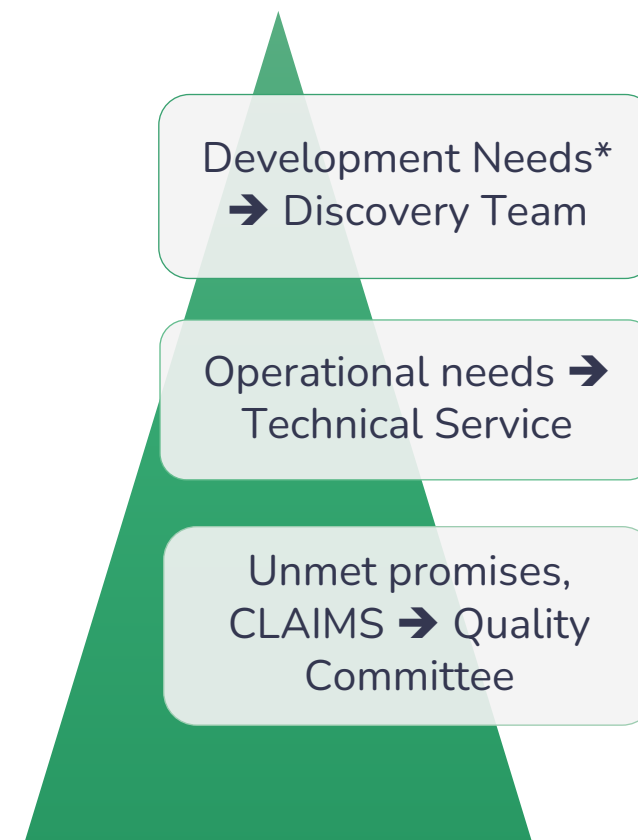
- Reduced gloss or frozen effect
- Lower friction
- Anti-blocking effect
- Processing aid (enhance fusion and melt strength)



Customer-Oriented Product Methodology

Discovery Team

- Interdisciplinary team focused on understanding customer needs - a discovery team identifying even hidden requirements.
- Leverage strong technical service and R&D capabilities with a global footprint.
- Expand our technological and strategic surveillance with scenarios joining this multi-level team.



Value Generation Initiatives for Applications

Pipe & Fittings

- Heat fusion able pipe
- Copolymer for adhesives
- Technical support for bi-oriented (PRIMEX® PVC 440 UHD)
- Additive as Impact Modifier (extrusion and injection)
- Foamed pipes
- Benchmark product (rate, overweight, scrap, energy)

W&C

- T2 automotive cable formulation with PRIMEX® P 300, PRIMEX® P 330 or PRIMEX® P 1982 K
- Friction reduction additives

Compound

- PRIMEX® P 160 as carrier, flow enhancer (injection), deep thermof. (appliance), low thickness film
- K80, 85, 87, 92 for Cold (-20°C) or hot (50°C) weather and oil-resistant applications
- Medical compounds for tubing and peristaltic pumps
- PRIMEX® PVC 445, PRIMEX® PVC 500, PRIMEX® G 30 HP, PRIMEX® G 34 HP for faster plasticizer absorption, faster extrusion
- Antistatic, anti-blocking additives

Value Generation Initiatives for Applications

Profiles

- Weatherable thin layer co-extruded with PRIMEX® P 160 for profiles and tiles
- Dulling, antistatic, surface enhancer additives

Others

- PVC for C-PVC manufacture
- PRIMEX® P 160 for blister

Cover Textile

PRIMEX® P 300, PRIMEX® P 330 for:

- Automotive unsupported parts (dashboard, door panel, seals)
- Pool liners
- Canvas
- Additives for melt strength, PA and antistatic in calander

Sustainability

- PRIMEX® S 6658, PRIMEX® K 57 and PRIMEX® S 7024 bio-attributed **FUTURE-FIT® PVC**
- Recycled PVC pallets
- Science based argument for defend PVC (EDP, LCA, Vinyl Association, training)

Q&A



Discover the PVC that fits your needs Our PVC-Finder



Closing



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Closing

Feedback

Please answer a couple of questions for us.
You will find a link to the questionnaire here in the chat.

Point of contact

Reach out to **your personal contact** or email us at:

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From applications in pipes and cables to household appliances and medical devices, Orbia's Polymer Solutions business group and businesses Vestolit and Alphagary supply Orbia's downstream businesses and a global customer base with polyvinyl chloride (PVC) general resins, specialty resins, compounds and additives for vinyl compounds.