



THERMOPLASTIC ELASTOMERS WITH 25-35% RECYCLED CONTENT



Trusted by major consumer brand owners and processors alike, Monprene® thermoplastic elastomers (TPEs) allow designers more flexibility and give manufacturers peace of mind. Now, more than ever, that peace of mind includes being environmentally responsible. New Monprene® RX CP-15100 series TPEs contain 25 to 35% recycled content. This is a significant added value that helps brands achieve their sustainability goals.

The Monprene RX CP-15100 series formulated with PCR (Post Consumer Recycled) content promotes a circular economy while decreasing reliance on virgin fossil-based resources and energy. This offering allows brands to meet consumer and regulatory demands for recycled content within their products. These products are available in 55, 65, and 80 Shore A, but customized formulations are available upon request.

The Monprene RX CP-15100 series is available globally and manufactured around the world with locally sourced raw materials procured to exacting specifications - turning local waste into resource. Unlike competitive TPEs with recycled content, which are only available in black, these materials are delivered in a consistent light, natural color, similar to their prime offsets. The Monprene RX CP-15100 series is manufactured under strict quality ISO 9001 and ISO 14001 standards.

The Monprene® RX CP-15100 Series Allows Sustainable Product Design

- Personal Care Products
- Lawn & Garden
- Writing Instruments
- Appliances
- Sporting Goods
- Dunnage

Product Features

- ☑ Available from 55 to 80 Shore A
- ☑ High-flow materials for injection molding or overmolding onto PP
- ☑ Light, natural color for ease of coloring
- ☑ Performs and processes like prime TPE
- ☑ RoHS compliant
- ☑ PCR content sourced from waste diverted from households, or commercial, industrial and institutional facilities

Benefits of Using PCR vs. PIR Content

- ☑ Promotes a circular economy and creates demand for consumer recycling programs
- ☑ Decreases reliance on virgin fossil-based resources and energy, reducing carbon footprint
- ☑ Meets consumer and regulatory demand for higher levels of recycled content in products



Monprene® RX CP-15100 Series | Typical Properties

Typical Properties	ASTM Test Method	Units	R2 CP-15155	R2 CP-15165	R3 CP-15180
% Post Consumer Recycled Content (PCR)*	---	---	25	25	36
Appearance	---	---	Nat / Translucent	Nat / Translucent	Nat / Translucent
Hardness (5 sec delay)	D2240	Shore A	54	65	79
Specific Gravity	D792	---	0.88	0.89	0.89
Tensile Strength	D412	psi	653	790	954
100% Modulus	D412	psi	216	262	428
Elongation	D412	%	766	750	700
Tear Strength (Die C, 20 in/min)	D624	lbf/in	106	132	183
Compression Set (73 °F for 22 hr)	D395B	%	24.4	25.4	33.9
Mass Flow Rate (175 °C / 2.16 kg)	D1238	g/10 min	17 (175 °C / 1.2 kg)	22	20

* Percentage of Recycled Content = Mass of Recycled Material in Compound / Total Mass of Compound x 100

Providing Sustainable Options Ties into Our Strong Commitment to Protect Our Planet

Because people and our planet are what matter at Teknor Apex, these specialty TPEs are an important part of our sustainability program. We actively look to increase the sustainability of our products, while reducing the environmental impact of our manufacturing operations. Our focus includes improving energy efficiency, reducing water consumption and diverting waste from landfills. Not only does Monprene with PCR content reduce plastic waste by incorporating it into the compound, but products made from this series are still fully recyclable at the end of the product's life.



Injection molded example using Monprene® R2 CP-15155 offering consistent light, natural color for ease of processing and coloring.

Email:
TPE@teknorapex.com

Americas:
+1 401 725 8000

Europe:
+49 9861 97497 0

Asia:
+65 6265 2544

www.teknorapex.com

Monprene RX CP-15100 Series TPEs are not intended for use in food contact, medical, or toy applications

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