

# PRODUCT SERIES RPEK® XEPS WITH PCR CONTENT

At Styropek®, we are committed to building a better and more sustainable future for generations to come. In line with this vision and upholding the highest quality standards, we have developed the RPEK® product family, which are white XEPS with PCR content products, designed to have similar performance compared to standard Styropek® EPS Regular materials.

**Products:**

RPEK® P50B Regular Material for Shape and Packaging with 50% of PCR content.

**Recycle content will be SCS Certified**

**Attributes (Table 1):**

Property	Units	P50B
Total Recycle Content	wt%	50
Minimum PCR	wt%	30
Bead Size, >95%	Mm	0.7 - 1.1
Pentane	wt%	4 - 5
Color	Visual	White
Application		shape / packaging

**Processing (Table 2):**

Requirement	P50B
MAD single pass batch (fresh Pre-puff), pcf	1.08
MAD final part, pcf	1.20

## RPEK® P50B

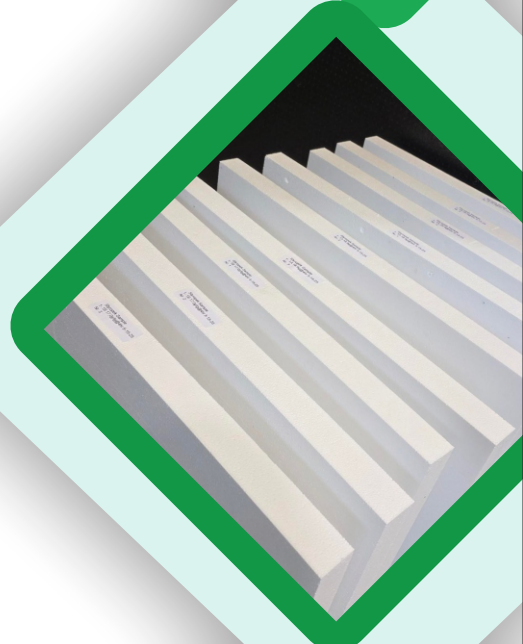
DATA SUBMISSION TEMPLATE - RECYCLED CONTENT RESIN PHYSICAL PROPERTIES

**BACKGROUND**

EPS Resin grade	RPEK P50B
Recycled content (%)	50

ASTM C578 Classification	Type I	Type VIII	Type II	Type IX
Density range, pcf	0.9 - 1.15	1.15 - 1.35	1.35 - 1.8	1.8 - 2.4
Average density, pcf	1.025	1.25	1.575	2.1

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RPEK® P50B

Test method	Specimen density, pcf	Test Value	ASTM C578 Classification
Thermal resistivity, Fft^2hr/BTUin	1.19	3.99	VIII
Thermal resistivity, Fft^2hr/BTUin	1.26	4.02	VIII
Thermal resistivity, Fft^2hr/BTUin	1.44	4.14	II
Thermal resistivity, Fft^2hr/BTUin	1.69	4.30	II
Thermal resistivity, Fft^2hr/BTUin	1.92	4.37	IX
Thermal resistivity, Fft^2hr/BTUin	2.22	4.40	IX
Compressive stress at 10 %, psi	1.01	12.09	I
Compressive stress at 10 %, psi	1.27	16.94	VIII
Compressive stress at 10 %, psi	1.70	25.53	II
Compressive stress at 10 %, psi	2.21	41.8	IX
Max Flexural strength, psi	1.08	38.3	I
Max Flexural strength, psi	1.39	46.1	II
Max Flexural strength, psi	1.45	51.9	II
Max Flexural strength, psi	1.96	74.1	IX
Max Flexural strength, psi	2.32	86.5	IX

