

Styrolution PS ECO 440 FC MR100

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TECHNICAL
DATASHEET

DESCRIPTION

Styrolution® PS ECO 440 FC MR100 WT is a mechanically recycled high impact polystyrene grade containing 100% post-consumer recycled material. This product is manufactured from 100% post-consumer recycled polystyrene from a novel technology under development following the process outlined in Commission Regulation (EU) No. 2022/1616 of 15 September 2022 on recycled plastic materials and articles. Recycled plastics produced under novel technologies are permitted in food-contact applications in accordance with the regulation.

FEATURES

- 100% recycled material
- Behaves like a 50:50 mixture of GPPS and HIPS
- Good extrusion properties
- White colour

APPLICATIONS

- Yoghurt cups
- Fish boxes
- Trays and flexible films for meat and cheese
- Cups for cold beverages
- Cups for hot beverages

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 200 °C/5 kg	ISO 1133	cm ³ /10 min	5.5
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	8
Tensile Stress at Yield, 23 °C	ISO 527	MPa	23
Tensile Strain at Yield, 23 °C	ISO 527	%	1.5
Tensile Modulus	ISO 527	MPa	2000
Elongation at Break (MD)	ISO 527	%	32
Flexural Modulus	-	-	1900
Thermal Properties			
Vicat Softening Temperature, B/2 (120 °C/h, 50N)	ASTM D 1525	°C	90