

Styrolution PS ECO 440 FC MR100

Please Select

TECHNICAL DATASHEET

DESCRIPTION

Styrolution® PS ECO 440FC MR100 is a mechanically recycled high impact polystyrene grade containing 100% recycled material.

FEATURES

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

APPLICATIONS

- Food packaging applications
- Other packaging applications
- Electronic equipment housings
- Construction applications (including XPS boards)

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate, 220 °C/10 kg	ISO 1133	cm³/10 min	6
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	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	89

Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.

Please consult our local sales or technical representatives for details.

SUPPLY FORM

Styrolution® PS ECO 440 FC MR100 is supplied as cylindrical or lens shaped pellets. It has to be kept in its original containers in a cool, dry place. Avoid direct exposure to sunlight. Styrolution® PS ECO 440 FC MR100 can be stored in silos.

Styrolution PS ECO 440 FC MR100

Please Select

TECHNICAL DATASHEET

PROCESSING

Styrolution® PS ECO 440 FC MR100 can be processed by all the methods normally used for polystyrene.

PRODUCT SAFETY

During processing of Styrolution® PS ECO 440 FC MR100 small quantities of styrene monomer may be released into the atmosphere. At styrene vapor concentrations below 20ppm no negative effects on health are expected. In our experience, the concentration of styrene does not exceed 1 ppm in well ventilated workplaces - that is where five to eight air changes per hour are made.

DISCLAIMER

The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.