



GEMAPILEN BRC GF25

25% Glass Fiber Reinforced Polypropylene Random Co-Polymer Compound

Description

Gemapilen BRC GF is manufactured for the new generation of PPRC Composite pipes reinforced with Glass Fiber and specially formulated additives. PPRC pipes reinforced with Gemapilen BRC GF demonstrate outstanding mechanical properties such as high strength, high stiffness and excellent impact resistance.

Applications

- Hot Water & Heating Systems
- High Pressure Systems
- Industrial Systems

Features

- Since Composite Pipes have an expansion coefficient close to that of foil pipes, they can be used as a direct alternative.
- Composite Pipes do not leak or stretch.
- Composite Pipes are resistant to freezing in cold weather, however, the freezing point of the fluid inside should be taken into consideration and the appropriate insulation applied.
- Composite Pipes cause no changes in colour, odour or taste of water. They are much more easily recycled when compared to foil pipes. They are more eco-friendly.
- Composite Pipes do not cause heat loss as encountered in foil pipes.

Physical Properties	Değer Value	Birim Unit	Metod Method
Melt Flow Rate (230 C;2,16 kg) Erime Akış Oranı	0,40 - 0,55	g/10 dk. g/10 min.	ISO 1133
Density Yoğunluk	1,08	g/cm3	ISO 1183
Ash Content Kül Değeri	25 - 26	%	ISO 3451
Humidity Nem	0,01	%	ISO 787
Mechanical Properties	Değer Value	Birim Unit	Metod Method
Izod Notched Impact Strength (23°C) Izod Çentikli Darbe Dayanımı	10,0 - 12,0	kJ/m2	ISO 180/1A
Izod Unnotched Impact Strength (23°C) Izod Çentiksiz Darbe Dayanımı	31 - 34	kJ/m2	ISO 180/U
Tensile Stress (5mm/min.) Kopmadaki Çekme Dayanımı (5mm/dk.)	44 - 46	Mpa	ISO 527
Tensile Stress at Break (5mm/min.) Kopmadaki Uzaması (5mm/dk.)	9 - 10	%	ISO 527

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Mechanical Properties	Değer Value	Birim Unit	Metod Method
Flexural Stress (5mm/min.) Eğme Dayanımı (5mm/dk.)	52 - 56	Mpa	ISO 178
Hardness Sertlik	63 - 65	Shore D	ISO 168

Storage and Handling

For easy handling and storage, Gematilen FK is supplied as cylindrical pellets packed into 25kg. bags (55 bags per pallet) or bulk bags (1.000kg.). The storage location should be dry and dust free. The ambient temperature should not exceed 50°C otherwise it can lead to a degradation of the product, which can result in colour changes, odour and effect product performance.

Important

Information contained in this Technical Data Sheet is given in good faith and to the best of the knowledge of GEMA ELEKTRO PLASTİK A.Ş. Before using the product mentioned herein, customers and other users should take all care in determining the suitability of this product for its intended purposes and particularly with regards to conformity with current regulations. It is the customer's responsibility to inspect and test our products in order to satisfy themselves as to the suitability of the product for their and their customer's particular purposes. GEMA ELEKTRO PLASTİK A.Ş. does not accept any liability whatsoever arising from the use of this information, or, the use, application or processing of any product described herein.

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