



GEMAPILEN BKT20 UV

20% Talcum Filled Polypropylene Compound (UV Stabilized)

Description

Gemapilen BKT series with its incorporated of special additives and talc provides high rigidity levels, greater stiffness and impact resistance characteristics to the manufactured product. Gemapilen BKT series is widely used in the manufacture of injection moulded products. The higher thermal conductivity of talcum compared to that of polymer, insures the faster distribution of heat during production thus increasing manufacturing efficiency.

Applications

- Automotive Industry
- White Goods
- Electrical Industry
- House Appliances
- Telecommunication
- Toy Industry

Features

Talcum acts as a nucleation agent in polymer thereby increasing the crystallisation of the product and increases its crystallisation levels. The product's heat related degradation temperature increases. This allows the processing of the product without softening under higher processing temperatures. Talc and other incorporated additives in Gemapilen BKT significantly reduces the product's mould shrinkage when compared to Polypropylene.

Gemapilen BKT can be manufactured to incorporate between 10% and 40% Talcum. Gemapilen BKT series can also reinforced with UV Stabilise, Antioxidant or Flame Retardant (FR) additives if required.

Physical Properties	Değer Value	Birim Unit	Metod Method
Melt Flow Rate (230 C ; 2.16 kg) Erime Akış Oranı	13 - 14	g/10 dk. g/10 min.	ISO 1133
Density Yoğunluk	1,03	g/cm3	ISO 1183
Ash Content Kül Değeri	20 - 21	%	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	5.5 - 6.5	kJ/m2	ISO 180/1A
Izod Unnotched Impact Strength (23°C) Izod Çentiksiz Darbe Dayanımı	22.5 - 23.5	kJ/m2	ISO 180/U
Tensile Stress (5mm/min.) Kopmadaki Çekme Dayanımı (5mm/dk.)	26.5 - 27.5	Mpa	ISO 527
Tensile Stress at Break (5mm/min.) Kopmadaki Uzaması (5mm/dk.)	10 - 11	%	ISO 527

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Mechanical Properties	Değer Value	Birim Unit	Metod Method
Flexural Stress (5mm/min.) Eğme Dayanımı (5mm/dk.)	34.5 - 35.5	Mpa	ISO 178
Hardness Sertlik	60 - 65	Shore D	ISO 168

Storage and Handling

For easy handling and storage, Gemapilen BKT 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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