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Product Data Sheet

Product Code : F2-FP-90-GR-NN-90-EX

Ordering Code 5118

Polymer composition : (LL)LDPE > 93% / PP < 3 %

Product Description : Agglomerate LDPE is a mixture of colored post-consumer low density polyethylene and traces of other polymers (HDPE, PP, ...). It originates from pre-sorted municipal (household) waste containing mostly PE film.

Application : Agglomerate LDPE can be directly used in e.g. construction applications like electrical housing, road plates, etc. It can be mixed with other materials to alter mechanical performance, visual characteristics (colour), and/or tune to specific properties dependent on the application.

It is not intended for use in food contact, water contact, pharmaceutical and medical applications.



General Characteristics

Form : Partially melted particles with traces of non-melted particles, where filtration could be recommended before use for final application

Size : < 15 mm

Filtration : not applicable

Color : Mixed colours

Packaging : Big bags (code 5118-BB)

Due to the nature of recyclates, some variation in product properties can be observed between batches. For that reason average values are indicated.

Physical & Mechanical Characteristics

Density : 950 kg/m³ (ISO 1183)

Melt Mass-Flow Rate (MFR) : 0.8 g/10 min (ISO 1133 - 190°C/2.16 kg)

Residual moisture (30 min/100°C) : 0.31 %

Tensile Modulus : 261 MPa (ISO 527-1)

Tensile Strength (at break) : 18.9 MPa (ISO 527-2)

Tensile Elongation (at break) : >250 % (ISO 527-2)

Flexural Modulus : 275 MPa (ISO 178)

Impact Strength (Charpy Test) at 23°C : 60 kJ/m² (ISO 179)

Impact Strength (Charpy Test) at -15°C : 40 kJ/m² (ISO 179)

Other Characteristics

Melting Point (L)LDPE : 110 – 126 °C (ISO 11357-1)

Melting Point PP : 161 – 164 °C (ISO 11357-1)

Ash Content : 2,3 % (ISO 3451)

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