Agglomerate LDPE

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 (color), 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	
Form	Partially melted particles with traces of non-melted particles, where filtration could be recommended before use for final application
Size	< 15 mm
Filtration	-
Color	Mixed colours
Packaging	Big bags

Due to the nature of recyclates, some variation in product properties can be observed between batches.

Physical		Nominal value	S.I. unit	Test Method
Density		904 – 924	kg/m³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)		0.75 – 1.00	g/10 min	ISO 1133
Residual moisture (30 min/100°C)		0.21 – 0.30	%	
Mechanical		**Nominal value**	**S.I. unit**	**Test Method**
Tensile Modulus		273 – 281	MPa	ISO 527-1
Tensile Strength				ISO 527-2
	Break	15.3 – 15.4	MPa	
Tensile Elongation				ISO 527-2
	Break	305 - 313	%	
Flexural Modulus		349 - 392	MPa	ISO 178
Thermal		**Nominal value**	**S.I. unit**	**Test Method**
Melting Point				ISO 11357-1
	(L)LDPE	110 – 126	°C	
	PP	163 - 164	°C	
Impact		**Nominal value**	**S.I. unit**	**Test Method**
Impact Strength (Charpy Test)				ISO 179
	23°C	69 – 70	kJ/m²	
	-15°C	31 - 47	kJ/m²	
Chemical		**Nominal value**	**S.I. unit**	**Test Method**
Polymer Composition				
	(L)LDPE	>93	%	
	PP	<3	%	
Ash Content		2.1	%	ISO 3451

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