Recy LDPE 7821 revision 14/05/2024

Product Description

Recy LDPE 7821 is a mixture of colored post-consumer low density polyethylene supplied in pellet form and is not additivated. It originates from pre-sorted municipal (household) waste containing mostly PE film.

Application

Recy LDPE 7821 is used for extrusion / injection molding.

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

General	
Form	Granules
Size	4 +/- 0.5 mm
Filtration	120 µm
Color	Grey-green
Packaging	Preferably delivered in 25 ton bulk. Big bags are possible.

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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