Recy LDPE 7822 revision 14/05/2024

Product Description

Recy LDPE 7822 is a mixture of colored post-consumer low density polyethylene supplied in pellet form and is additivated to increase shelf life. It originates from pre-sorted municipal (household) waste containing mostly PE film.

Application

Recy LDPE 7822 is used for the production of blown film for non-food contact applications, eg garbage bags, industrials film, construction films, agricultural films.
Recy LDPE 7822 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	Cylindrical
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		798 – 894	kg/m³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)		0.62 – 0.75	g/10 min	ISO 1133
Film		**Nominal value**	**S.I. unit**	**Test Method**
Film thickness		50	µm	
Tensile Modulus				ISO 527-3
	MD	209 - 311	MPa	
	TD	235- 261	MPa	
Tensile Strength				ISO 527-3
	MD : Break	15	MPa	
	TD : Break	10 – 12	MPa	
Tensile Elongation				ISO 527-3
	MD : Break	352 - 410	%	
	TD : Break	355 – 417	%	
Tear Resistance				ISO 6383-1
	MD	5 - 7	N	
	TD	12 – 13	N	
Dart Drop Impact		41 – 60	g	ISO 7765-1
Thermal		**Nominal value**	**S.I. unit**	**Test Method**
Melting Point				ISO 11357-1
	(L)LDPE	110 – 125	°C	
	PP	164	°C	
Chemical		**Nominal value**	**S.I. unit**	**Test Method**
Polymer Composition				
	(L)LDPE	> 93	%	
	PP	< 3	%	

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