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Alcudia® High density polyethylene

Chemicals Technical data sheet

HDPE ALCUDIA® 5502E

The high density polyethylene ALCUDIA® 5502E is a hexene copolymer of medium molecular weight, due to its characteristics is specially intended for extrusion of doubled corrugated drainage and sewage pipes. This product is supplied in natural colour but they can be easily coloured with pigments steady at processing temperature, using dry-colouring or masterbatch techniques.

TYPICAL APPLICATIONS

- Structured doubled wall without pressure pipes for underground drainage and sewage.
- Mono and doubled wall corrugated pipes for protecting cables.

Recommended melt temperature range 190 - 210 ºC. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190ºC, 21.6 kg)	22.0	g/10 min	ISO 1133
Melt Flow Rate (190ºC, 5 kg)	1.10	g/10 min	ISO 1133
Melt Flow Rate (190ºC, 2.16 kg)	0.23	g/10 min	ISO 1133
Density at 23°C	955	kg/m^3	ISO 1183
Mechanical			
Tensile Strength at Break	28	MPa	ISO 527-2
Elongation at Break	800	%	ISO 527-2
Flexural modulus of elasticity	1200	MPa	ISO 178
Others			
ESCR (F50) (Antarox CO-630 at 10%)	>35	h	ASTM D-1693
Brittleness temperature	< -70	°C	ASTM D-746
Vicat Softening temperature (10 N)	128	ºC	ISO 306
Shore Hardness D	65	-	ISO 868

ALCUDIA® 5502E high density polyethylene complies with the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

ALCUDIA® 5502E high density polyethylene should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60 ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

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