

**REPSOL
YPF**



**ALCUDIA®
HD POLYETHYLENE**

51100

ALCUDIA® 51100 natural compound, is a high molecular weight bimodal copolymer suitable for the extrusion of pipe, although it is mainly used as the natural base polymer for identification stripes on pressure polyethylene pipes. This grade contains an antioxidant package which protects it during the extrusion process. The characteristics and properties of this grade, lead to a fulfillment of the requirements for its application. This product is supplied in natural colour but it may be easily coloured with pigments steady at processing temperature, using dry-colouring or masterbatch techniques.

MAIN APPLICATIONS

Natural base polymer for identification stripes on pressure polyethylene pipes

PROCESSING

The following temperature profile is suggested as a guide. Conditions will depend on size and wall thickness of the pipe produced and extrusion equipment used.

CYLINDER	HEAD	DIE
170°C to 190°C	200°C to 220°C	190°C to 210 °C

PROPERTIES

PROPERTIES	UNITS	TYPICAL VALUE	TEST METHOD
A) GENERAL MFI (190°C, 5 Kg) MFI (190°C, 21.6 Kg) Density at 23°C	g/10 min g/10 min Kg/m ³	0.38 10 951	ISO 1133 ISO 1133 SO 1183
B) MECHANICAL Tensile Strength at Break Elongation at Break Flexural Modulus	MPa % MPa	37 750 1000	EN 638 EN 638 ASTM D-790
C) OTHER PROPERTIES Hardness 23°C ESCR (Antarox CO-630 10%) Brittleness temperature	Shore D h F ₅₀ °C	60 >1000 <-118°C	ASTM D-2240 ASTM D-1693 ASTM D-746

CONTACT WITH FOODSTUFFS

ALCUDIA^(R) 51100 may be used in contact with foodstuffs. For more information about specific country regulation, please, contact with our local representative or the Technical Service.

February 2008

This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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