

ALCUDIA® HDPE 5703-A

High Density (MMW) Polyethylene
REPSOL

Message:

ALCUDIA® 5703-A natural compound is an hexene copolymer of medium molecular weight especially apt for the extrusion of corrugated pipe. Because other good mechanical properties and their characteristics, the polyethylene natural compound ALCUDIA® 5703-A, is designed to produce corrugated pipe. It has the antioxidant package enough for the extrusion process. 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

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Colorability		
	Hexene Comonomer		
	Medium Molecular Weight		
Uses	Corrugated Pipe		
	Piping		
Appearance	Natural Color		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.960	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.33	g/10 min	
190°C/21.6 kg	30	g/10 min	
190°C/5.0 kg	1.5	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	30.0	MPa	EN 638
Tensile Strain (Break)	> 700	%	EN 638
Flexural Modulus	1550	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -118	°C	ASTM D746
Vicat Softening Temperature	130	°C	ISO 306
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	175 to 195	°C	
Cylinder Zone 2 Temp.	180 to 200	°C	

Cylinder Zone 3 Temp.	185 to 205	°C
Cylinder Zone 4 Temp.	190 to 210	°C
Cylinder Zone 5 Temp.	190 to 210	°C
Melt Temperature	195 to 215	°C

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