

Eraclene® DB 506

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene DB 506 is a high density polyethylene resin (HDPE), hexene copolymer, obtained by gas phase technology process. The main properties of Eraclene DB 506 are emphasized when it is used for production of drip irrigation pipe.

Main Application

Eraclene DB 506 can be easily used in blend with LLDPE and LDPE grades to modify the final properties of the drip irrigation pipe according to the specific needs.

For outdoor application, it is strongly suggested to add Anti UV. The combined usage of these additives together with Carbon Black can provide outstanding resistance to UV radiation.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Hexene Comonomer		
	High Density		
Uses	Blending		
	Irrigation Applications		
	Piping		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.23	g/10 min	
190°C/5.0 kg	0.90	g/10 min	
Environmental Stress-Cracking Resistance (Compression Molded)	> 1000	hr	ISO 22088
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	58		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	18.0	MPa	
Break, Compression Molded	28.0	MPa	
Tensile Strain (Break, Compression Molded)	> 800	%	ISO 527-2
Flexural Modulus (Compression Molded)	690	MPa	ISO 178
Films	Nominal Value	Unit	Test Method

Film Thickness - Tested	25	μm	
Elmendorf Tear Strength ¹			ISO 6383-2
MD : 25.0 μm	20.0	kN/m	
TD : 25.0 μm	170.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	119	°C	ISO 306/A
Melting Temperature	129	°C	Internal Method
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 230	°C	
NOTE			

1. Blown Film

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