

Clearflex® H&T DFH 20

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex DFH 20 is a Linear Low Density Polyethylene Resin butene comonomer produced by Unipol gas phase technology.

Clearflex DFH 20 exhibits a typical wide molecular weights distribution which gives an excellent processability together with good mechanical characteristics.

Main Applications

Clearflex DFH 20 is mainly designed for the production of micro-irrigation tubes, durable hoses and pipes, extruded profiles and for the production by injection molding of fittings. The outdoor use, requires the addition with anti-UV, to maintain excellent performance even after prolonged periods of exposure to sunlight.

General Information			
Additive	Antioxidation		
Features	Butene comonomer		
	Antioxidation		
	Workability, good		
	Wide molecular weight distribution		
	Definition, high		
Compliance of Food Exposure			
Uses	Pipe		
	Piping system		
	Pipe fittings		
	Profile		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	> 500	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	44		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, molding	11.0	MPa	ISO 527-2
Fracture, molding	15.0	MPa	ISO 527-2

Tensile Strain (Break, Compression Molded)	> 800	%	ISO 527-2
Flexural Modulus (Compression Molded)	310	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Elmendorf Tear Strength ¹			
MD : 25.0 μm	10.0	kN/m	
TD : 25.0 μm	255.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	110	°C	ISO 306/A
Melting Temperature	120	°C	Internal method
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 230	°C	
NOTE			

1. Blown Film

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