

DOW™ HDPE 80017

High Density Polyethylene Resin

The Dow Chemical Company

Message:

HDPE 80017 is a High Density Polyethylene, copolímero of medium molecular weight, produced in the Slurry Process. This resin presents an excellent balance of properties and processability. Because of its molecular structure, this material combines a high impact resistance and Environmental Stress Cracking Resistance (ESCR), with high rigidity, suitable for the fabrication of corrugated pipes of single and double wall.

Main Characteristics:

Corrugated pipes of single and double wall

Pipes for drain and waste

Complies with FDA 21 CFR 177.1520(c) 3.2a

Consult the regulation for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.956	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.29	g/10 min	ASTM D1238
190°C/21.6 kg	27	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50)	> 250	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	30.0	MPa	ASTM D638
Fracture, molding	35.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	950	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	580	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Oxidation Induction Time (200°C)	> 20	min	ASTM D3895
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190	°C	
Cylinder Zone 3 Temp.	195	°C	
Cylinder Zone 5 Temp.	200	°C	

Extrusion instructions

建议的加工条件:

挤出温度:190℃ - 195℃ - 200 °C

成型温度:205℃

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