

# DOW™ MDPE 8818

Medium Density Polyethylene Resin

The Dow Chemical Company

## Message:

MDPE 8818 is a 1-hexene copolymer medium density resin. Exhibits good processability, excellent stress cracking resistance (ESCR), impact resistant and good performance at low temperatures. The long term hydrostatic strength (LTHS) at 20°C is greater than 8 MPa, classifies as PE80 according to ISO 9080. ASTM D3350 cell classification: 235473A. Standard designation code: PE2706

Main applications include pipes for water distribution, irrigation, effluents; ducts for telecommunications; geomembranes; telephone cable shells, drop wires.

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	17	g/10 min	
190°C/5.0 kg	0.74	g/10 min	
Environmental Stress-Cracking Resistance (100°C, 100% Igepal, F0)	> 3000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	21.0	MPa	
Break	33.0	MPa	
Tensile Elongation (Break)	800	%	ASTM D638
Flexural Modulus - 2% Secant	827	MPa	ASTM D790
Hydrostatic Design Basis (23°C)	1250		ASTM D2837
Slow Crack Growth PENT	> 1000	hr	ASTM F1473
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	590	J/m	ASTM D256
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	165	°C	
Cylinder Zone 2 Temp.	185	°C	
Cylinder Zone 3 Temp.	200	°C	
Cylinder Zone 4 Temp.	205	°C	
Melt Temperature	200 to 210	°C	

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