

DOW™ HDPE 7808

High Density Polyethylene Resin

The Dow Chemical Company

Message:

HDPE 7808 is a high molecular weight high density polyethylene, 1-Hexene copolymer. Exhibits good processability, high melt strength and excellent stress cracking resistance (ESCR), impact resistant and good performance at low temperatures. ASTM D3350 cell classification: 345463A. Standard designation code: PE3606.

Main applications: pipes for water distribution and irrigation; large diameter pipes (aqueducts, mining, industry); pipes for sewage and drainage.

Complies with:

FDA 21 CFR 177.1520 regulation

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.945	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	7.2	g/10 min	
190°C/5.0 kg	0.22	g/10 min	
Environmental Stress-Cracking Resistance (100°C, 100% Igepal, F0)	> 2000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 2% Secant	553	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	21.0	MPa	
Break	32.0	MPa	
Tensile Elongation (Break)	660	%	ASTM D638
Flexural Modulus - 2% Secant	869	MPa	ASTM D790
Hydrostatic Design Basis (23°C)	8.62	MPa	ASTM D2837
Slow Crack Growth PENT	220	hr	ASTM F1473
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	460	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	123	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180	°C	
Cylinder Zone 2 Temp.	190	°C	

Cylinder Zone 3 Temp.	200	°C
Cylinder Zone 4 Temp.	210	°C

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

