

DOW™ HDPE 7808 C

High Density Polyethylene Resin

The Dow Chemical Company

Technical Data

General

Material Status	• Commercial: Active	
Literature ¹	• Technical Datasheet	
Search for UL Yellow Card	• The Dow Chemical Company	
Availability	• Latin America	
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets	

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.943 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/21.6 kg	7.0 g/10 min	
190°C/5.0 kg	0.22 g/10 min	
Environmental Stress-Cracking Resistance		ASTM D1693
100°C, 2.00 mm, 100% Igepal	> 2000 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		ASTM D638
Yield	20.6 MPa	
Break	32.4 MPa	
Tensile Elongation (Break)	660 %	ASTM D638

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	64	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	123 °C	ASTM D1525
Oxidation Induction Time (200°C)	> 60 min	ASTM D3895

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
Die Temperature	200 to 215 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.