

# TOTAL Polyethylene HDPE 5502 (US)

High Density Polyethylene  
TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene 5502 (US) is a high density polyethylene material. This product is available in North America.  
The main features of TOTAL Polyethylene 5502 (US) are:  
Comply with REACH standard  
High resistance to environmental stress fracture (ESCR)  
accessible food  
Good stiffness  
Typical application areas include:  
food contact applications  
medical/health care  
packing  
industrial applications

General Information			
Features	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	Compliance of Food Exposure		
Uses	Industrial application		
	Food packaging		
Agency Ratings	DMF not rated		
	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520(c) 2.1		
	FDA 21 CFR 177.1520(c) 2.2		
	USP Class VI		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.955	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.35	g/10 min	ASTM D1238
190°C/21.6 kg	30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal	35.0	hr	ASTM D1693B
100% Igepal	50.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	27.6	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	600	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	129	°C	ASTM D3418
Additional Information			
Blow Molding Stock Temperature: 360 to 400°F			
Extrusion	Nominal Value	Unit	
Melt Temperature	193 - 216	°C	
NOTE			
1.	Type 4, 51mm/min		
2.	Type 4, 51mm/min		

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#### Recommended distributors for this material

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