

# Toler PE PE3953

High Density Polyethylene

Toler Chemical, Inc

## Message:

Toler PE PE3953 is a High Density Polyethylene product. It is available in North America. Typical application: Bottles. Primary characteristic: high escr (stress crack resistant).

General Information			
Features	Good Strength		
	High ESCR (Stress Crack Resist.)		
Uses	Bottles		
Physical	Nominal Value	Unit	Test Method
Density	0.952 to 0.955	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30 to 0.40	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
F50	> 500	hr	ASTM D2561
F50	35.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	26.5	MPa	ASTM D638
Tensile Elongation (Break)	850	%	ASTM D638
Flexural Modulus	1280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	242	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525

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