

DOW™ HDPE 40055L

High Density Polyethylene Resin

The Dow Chemical Company

Message:

HDPE 40055L is a bimodal High Density Polyethylene resin that combines outstanding environmental stress crack resistance (ESCR) with good stiffness and impact resistance. Its rheological characteristics make it ideal for the production of medium size containers

Applications:

Jerrycans and medium size containers for:

Aggressive liquids (e.g. detergents, surfactants, etc)

Chemicals

Agrochemicals

Food products

Containers requiring UN approval for the transport of dangerous goods

Industrial parts

Sheet extrusion

Complies with:

FDA regulation 177.1520(c)3.2a

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.953	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	10	g/10 min	
190°C/5.0 kg	0.41	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	25.0	MPa	
Break	40.0	MPa	
Tensile Elongation (Break)	900	%	ASTM D638
Flexural Modulus - 2% Secant	870	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°C	ASTM D1525

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