

DOW™ HDPE 35054L

High Density Polyethylene Resin

The Dow Chemical Company

Message:

HDPE 35054L is a bimodal High Density Polyethylene intended for Blow Molding applications. This resin exhibit a good balance of mechanical properties and a very high Environmental Stress Cracking Resistance (ESCR).

Applications:

Containers for:

Household & industrial chemicals (e.g. detergents and softeners)

Personal care products and Cosmetics

Food products

Lubricants

Car care products

Toys

Automotive Parts

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 3.2a Consult the regulation for complete details

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.29	g/10 min	
190°C/21.6 kg	27	g/10 min	
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	> 500	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.0	MPa	
Break	34.0	MPa	
Tensile Elongation (Break)	950	%	ASTM D638
Flexural Modulus - 2% Secant	840	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ASTM D1525

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Recommended distributors for this material

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



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