

## DESCRIPTION

Alkatane HD0840 is a very high molecular weight High Density Polyethylene copolymer resin, especially formulated for use in large part mouldings where strength and rigidity are of importance. It combines excellent impact strength with good ESCR.

## APPLICATION

Alkatane HD0840 is especially suited for blow moulding drums from 15L to 220L and supported IBC's to 1000L in volume. Suitability for use in any application should be determined by appropriate performance testing. For outdoor applications, an appropriate UV stabilization package should be added.

## FOOD CONTACT / PRODUCT SAFETY

For food contact information please refer to the Regulatory Data Sheet at [genos.com](http://genos.com). For product safety information please refer to the Safety Data Sheet at [genos.com](http://genos.com).

Polymer Properties	Value <sup>1</sup>	Units	Test Method
Melt Index @ 190°C, 2.16 kg	0.06	g/10 min	ASTM D1238
Melt Index @ 190°C, 5.0 kg	0.3	g/10 min	ASTM D1238
Melt Index @ 190°C, 21.6 kg	7	g/10 min	ASTM D1238
Density	0.953	g/cm <sup>3</sup>	ASTM D1505

Moulding Properties	Value <sup>1</sup>	Units	Test Method
Tensile Strength at Yield <sup>2</sup>	26	MPa	ASTM D638
Elongation at Break <sup>2</sup>	900	%	ASTM D638
Flexural Modulus (1% Secant) <sup>3</sup>	1070	MPa	ASTM D790B
Izod Impact Strength @ -30°C	310	J/m	ASTM D256 Method A
Durometer Hardness	64	Shore D	ASTM D2240
ESCR- 10% Igepal (F <sub>50</sub> )	250	hrs	ASTM D1693 Condition B
ESCR- 100% Igepal (F <sub>50</sub> )	>1000	hrs	ASTM D1693 Condition B

1. Typical values - not to be construed as specifications.
2. At 50 mm/min cross head speed, type 4 dumbbell and 1.9 mm thickness.
3. At 12.7 mm/min cross head speed.

For up to date information, refer to [genos.com](http://genos.com)

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