

# ExxonMobil HDPE

## HYA 600

Blow Molding Resin

### Description

HYA 600 is a general purpose HDPE resin, characterized by very easy processability, an excellent balance of rigidity and impact strength and a good ESCR.

### Applications

- bottles for household, industry and chemicals
- containers up to 30 l.

Additive Package	Thermal Stabilizer
HYA 600	Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index (21.6 kg, 47.6 lb)	ASTM D1238	29 g/10 min	
Melt Index (2.16 kg, 4.76 lb)	ASTM D1238	0.35 g/10 min	
Density	ASTM D4703 / D1505	0.954 g/cm <sup>3</sup>	
Vicat Softening Point	ASTM D1525	128 °C	262 °F

Molded Properties			
Yield Strength (1)	ASTM D638	27 MPa	3900 psi
Tensile Strength (1)	ASTM D638	> 15 MPa	> 2200 psi
Elongation @ Break (1)	ASTM D638	> 450 %	
1% Secant Modulus (2)	ASTM D638	900 MPa	130500 psi
IZOD Impact (notched)	ASTM D256	14 kJ/m <sup>2</sup>	6.7 ft-lb/in <sup>2</sup>
Shore Hardness, D	ASTM D2240	62	
Environmental Stress Crack Resistance (3)	ASTM D1693	22 hrs	
Environmental Stress Crack Resistance (4)	ASTM D1693	53 hrs	

The molded properties have been measured on compression molded sheets, prepared according to ASTM D 4703.

- (1) Specimen type T4 / thickness 3 mm (118 mil); speed of testing 50 mm/min (1970 mil/min).
- (2) Specimen type T4 / thickness 3 mm (118 mil); speed of testing 5 mm/min (197 mil/min).
- (3) Conditions B, F50, 10 % Igepal
- (4) Conditions B, F50, 100 % Igepal

HYA 600 can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

Revised 12/03