

Producer: Ineos Olefins Polymers USA / Europe

HD B53 - 35H - 011

Description:

B53-35H-011 is a high density polyethylene copolymer developed for blow molding applications. This product is recommended for use in applications which require a combination of high top load strength and good environmental stress crack resistance (ESCR). This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

PROPERTIES	VALUES		ASTM Method
	English Units	SI Units	
Density	-	0,955 g/cc	D 4883
Melt Index ²	-	0,35 g/10 min	D 1238
Tensile Strength @ Yield (2 in / min)	4000 psi	27,6 Mpa	D 638
Elongation @ Break (2 in / min)	> 700 %	> 700 %	D 638
Tensile Modulus of Elasticity ³	217,000 psi	1497 Mpa	D 638
Flexural Modulus ³	180,000 psi	1241 Mpa	D 790
Stiffness In Flexure	100,000 psi	690 Mpa	D 747
Notched Izod Impact Strength	3.5 ft.lbf/in	0,19 kJ/m	D 256
Tensile Impact Strength	132 ft.lbf/in ²	277 kJ/m ²	D 1822
Hardness (Shore D)	65	65	D 2240
Vicat Softening Temperature	268 °F	131 °C	D 1525
Brittleness Temperature	<-103 °F	<-75 °C	D 746
Deflection Temperature @66 psi	165 °F	74 °C	D 648

¹ Typical properties will vary within specification limits.

² 190°C / 2160 g

³ Tangent - Method