

GM2860

High Density Polyethylene (HDPE)

Description:

GM2860 is a High Density Polyethylene resin for blow molding with high impact strength, high stiffness. It is suitable for container a few ml to 20 liters, lubricant or cosmetic bottle, chemical container, one-way bottle. It also meets the F.D.A. requirement in the code of federal regulations in 21 CFR 177.1520 for food contact.

Physical Properties:	Method	Unit	Value
Melt Flow Index (2.16 kg/190°C)	ASTM D1238	g/10min.	0.35
Melt Flow Index (5 kg/190°C)	ASTM D1238	g/10min.	1.50
Density	ASTM D792	g/cm ³	0.960
Tensile Strength at Yield	ASTM D638	MPA	31.5
Tensile Strength at Break	ASTM D638	MPA	36.5
Ultimate Elongation	ASTM D638	%	2050
Hardness Shore D	DIN 53505	-	66
Charpy Notched Impact Strength (at 23°C)	DIN 53453	mJ/mm ²	8.5
Vicat Softening Temperature	ASTM D1525	°C	130
Environmental Stress Cracking Resistance (condition B, F ₅₀)	ASTM D1693	hours	85

Processing Technique

Processing Temperature : 170 – 200 °C

However, the actual processing conditions depend on machine and other environments.

Remark: The values presented on the above are typical laboratory average, not to be construed as specifications and may vary within moderate ranges. The applicability or the accuracy of this information or the suitability of our products cannot be guaranteed because the conditions of use on the part or our uses are beyond our control.