

R1760

High Density Polyethylene (HDPE)

Description:

R1760 is a High Density Polyethylene resin for injection molding with high impact strength, excellent surface appearance and good rigidity contain UV stabilizer additive. It is suitable for crates, trays, cases, industrial parts, bins, large housewares, safety helmets packaging of agriculture products pallets, heavy duty articles. 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.	6
Melt Flow Index (5 kg/190°C)	ASTM D1238	g/10min.	17.5
Density	ASTM D792	g/cm ³	0.957
Tensile Strength at Yield	ASTM D638	MPA	29.5
Tensile Strength at Break	ASTM D638	MPA	15
Ultimate Elongation	ASTM D638	%	1000
Hardness Shore D	DIN 53505	-	65.5
Charpy Notched Impact Strength (at 23°C)	DIN 53453	mJ/mm ²	4
Vicat Softening Temperature	ASTM D1525	°C	125
Environmental Stress Cracking Resistance (condition B, F ₅₀)	ASTM D1693	hours	9

Processing Technique

Processing Temperature: 200 – 260°C

****However, the actual processing conditions depend on mold design, 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 suitable of our products cannot be guaranteed because the conditions of use on the part or our uses are beyond our control.