SAFFRON GROUP

Q 50100 - High Density Polythylene

Product Specification

DESCRIPTION AND USE

This extra high molecular weight hexene copolymer is tailored for large blow molded and thermoformed parts that require:
- Good melt strength
- Good rigidity
- Excellent ESCR
- Excellent low temperature impact strength

Typical applications include:
- 220L shipping containers
- Gasoline tanks
- Agricultural chemical tanks
- Pallets
- Automative dunnage
- Truck bedliners and boats

These resins meet these specification:
- ASTM D4976 – PE 235
- FDA Regulations 21CFR 177.1520. Suits for food packaging.

NOMINAL PHYSICAL PROPERTIES	ASTM	UNIT	VALUE
Density	D1505	g/cm3	0.948
Melt Index, Condition 190℃/2.16 kg HLMI,	D1238 D1238	g/10min g/10min	0.06 10
ESCR Condition A, F50 (100% Igepal) Condition B, F50 (100% Igepal)	D1693 D1693	h h	>600 >600
Tensile Yield Strength, 50 mm/min	D638 Type IV	Mpa	26
Elongation at Break, 50 mm/min	D638 Type IV	%	>600
Brittleness Temperature	D746	℃	<-75
Flexural Modulus, Tangent	D790	Mpa	1170
Shore D Hardness	D2240		68

Technical Disclaimer