

Product Description

EL-Lene H5603B is a high molecular weight - high density polyethylene resin suitable for producing plastic drums by using extrusion blow molding machine.

Typical Application

- Chemical drums
(Containing volume up to 120 liter)
Suitable for containing many kinds of chemical such as Acidic solution, Basic solution, Ionic solution and inorganic solution

Product Characteristics

- Excellent Environmental Stress Cracking Resistance (ESCR)
- Excellent impact and compressive strength
- Food contact applicable (Complies with U.S FDA 21 CFR 177.1520)

Physical Properties

Property	Test Method	Value	Unit
Melt Flow Rate	ASTM D 1238 @ 190°C, 2.16 kg	0.03	g/10 min
Melt Flow Rate	ASTM D 1238 @ 190°C, 5 kg	0.15	g/10 min
HLMI	ASTM D 1238 @ 190°C, 21.6 kg	5	g/10 min
Density	ASTM D 1505	0.956	g/cm ³
Tensile Strength at Yield	ASTM D 638 @ Crosshead speed 50 mm/min	260	kg/cm ²
Tensile Strength at Break	ASTM D 638 @ Crosshead speed 50 mm/min	380	kg/cm ²
Elongation at Break	ASTM D 638 @ Crosshead speed 50 mm/min	800	%
Flexural Modulus	ASTM D 790	11000	kg/cm ²
Notched Izod Impact	ASTM D 256 @ 23°C	47	kg.cm/cm
Hardness	ASTM D 2240	67	Shore D
ESCR	ASTM D 1693 @ 50°C (Condition B, Compression Molded, 25% Igepal)	> 1000	hrs, F ₅₀
Melting Point	ASTM D 2117	132	°C
Vicat Softening Point	ASTM D 1525	128	°C
Brittleness Temperature	ASTM D 746	< - 60	°C

Note : Conversion factor for changing unit from kg/cm² to MPa is divided by 10.20

Processing Techniques

The actual extrusion condition depends on type of using machine, size and wall thickness of product required. Generally, melt temperature should be 200-220°C. 5-8 bar of blowing pressure and accumulated die head are recommended. In some cases, enlargement of die and pin diameter (15-30%) may be suggested for increasing parison diameter.

Product Available Form

- Pellet

Product Handling

- 25 kg loose bag
- Big bag with specified weight

Product Technical Assistance

For technical assistance or further information on this product or any other EL-Lene products, please contact EL-Lene representatives.

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