

Provisional Technical Datasheet

B55H02



High Molecular Weight High Density Polyethylene

Blow Molding

Product Description:

HDPE B55H02 is a natural colored grade produced with the latest Mitsui CX slurry polymerization Technology exhibiting following features:

- ✓ High Impact Strength
- ✓ Rigidity
- ✓ Low Parison Sag
- ✓ Good ESCR Properties

HDPE B55H02 is recommended for following applications:

- ✓ Large Volume Containers for transport & storage of Chemicals, detergents, lube Oils, water etc.

Typical Properties:

Sr. No.	Properties	Test Method	Units	Values*
Physical Properties				
1	Melt Flow Index (190°C & 5 kg)	ASTM D1238	g / 10 min	0.20
2	Melt Flow Index (190°C & 21.6 kg)	ASTM D1238	g / 10 min	5.0
3	Density (at 23 °C)	ASTM D1505	gm/cm ³	0.955
Mechanical Properties				
4	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	28
5	Tensile Strength @ Break	ASTM D638	MPa	>27
6	Elongation @ Break (50mm / min)	ASTM D638	%	>600
7	Notched Izod Impact Strength (at 23 °C)	ASTM D256A	J/m	500
8	Charpy Impact Strength	ISO 179-1	KJ/m ²	NB
9	Flexural Modulus	ASTM D790A	MPa	1000
10	ESCR (F ₅₀ , 10% Igepal Soln. v/v)	ASTM D1693B	Hours	>600
11	Hardness	ASTM D2240	Shore D	64
Thermal Properties				
12	Vicat Softening Point (10N)	ASTM D1525	°C	125
13	Heat Deflection Temperature (0.455 Mpa)	ASTM D648	°C	80
14	Melting Temperature	ASTM D3418	°C	132
* Mechanical Properties tested on Compression Molded Specimen.				
* Typical Values and not to be taken as specification limits, values may change without any prior notice.				

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Regulatory Requirements:

HDPE Blow Molding grade B55H02 shall meet the requirements stipulated in IS 10146:1982 on 'Specification of Polyethylene for safe use in contact with Foodstuff, Pharmaceutical & Drinking water'. The grade and Additives incorporated in this grade shall meet the positive list of constituents as prescribed in IS 10141:1982. The Grade and the additives incorporated in it shall also comply with the FDA: CFR Title 21,177.1520, Olefin Polymers.

Storage & Handling:

Prevent Polyethylene Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the Storage temperature should not exceed 50 °C. Non - compliance to these precautionary measures can lead to degradation of the product causing Color changes, Odor & inadequate product performance.

Health and Safety Information:

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at www.opalindia.in. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.



ONGC Petro additions Ltd

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