

# PRODUCT DATA SHEET



## HD5403

### HIGH-DENSITY POLYETHYLENE

#### Product Description

HD5403 is a high-density polyethylene (HDPE) grade which possesses an excellent combination of stiffness, ESCR and high impact resistance. It contains standard stabilization additive package. This grade is suitable for large blow molding extrusion process for industrial applications.

#### Characteristics

- Very good impact resistance and rigidity
- High Environmental Stress Cracking Resistance (ESCR)
- High stiffness for container stacking
- Impact strength at low temperature

#### Applications

- L-ring drums
- Open top drum
- Industrial packaging e.g. intermediate bulk container (IBC), jerrycan

#### Properties

Typical Properties	Test Method	Units	Typical Value
<b>Physical</b>			
Melt Flow Rate @ 10 kg	ISO 1133	g/10min	0.5
Melt Flow Rate @ 21.6 kg	ISO 1133	g/10min	2.7
Density	ISO 1183	g/cm <sup>3</sup>	0.954
<b>Mechanical</b>			
Tensile Stress @ Yield	ISO 527-2	MPa	27
Tensile Strain @ Yield	ISO 527-2	%	8
Tensile modulus	ISO 527-2	MPa	1230
Tensile impact strength - Notched, (-30 °C, Type 1, Method A)	ISO 8256	kJ/m <sup>2</sup>	290
Charpy Impact Strength - Notched, (-30 °C, Type 1, Edgewise, Notch A)	ISO 179	kJ/m <sup>2</sup>	80
FNCT, (3.5 MPa, 2% Arkopal N100, 80 °C)	ISO 16770	hour(s)	14

*Note: The above are typical data representing the product; not to be construed as analysis certificate or specifications. User should confirm results by their own tests.*

## Typical Processing Conditions

HD5403 can be processed on most standard extrusion equipment designed for HDPE. Optimization may be required depending on the exact end use requirement. Melt temperature in the range of 180–220°C are typically used.

## Regulatory Information

Details of information will be provided in a relevant declaration letter upon request.

## Processing and Handling

HD5403 should be stored in a dry, under shaded and ventilated environment at a temperature below 40°C. Prolong of improper storage can result in deterioration of product properties.

## Health and Safety

This product is not classified as a dangerous preparation. Before using this product, customer is advised to consult PRefChem's Safety Data Sheet (SDS) to understand the precautions in various aspect of safety, recovery and disposal of the product.

## For More Information

Please contact:

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Date: 18 November 2021

Reference number: PREFCHEM PPC PDS/HD5403/A001/2021