







# SABIC® LDPE 2201HOW

# LOW DENSITY POLYETHYLENE

# **DESCRIPTION**

SABIC® LDPE 2201HOW is a grade without additives with a very good draw down ability. Films based on 2201HOW combine toughness with high tear strength and very good optical properties.

SABIC® LDPE 2201HOW is typically used for thin packaging film purposes, where good optical properties are required. SABIC® LDPE 2201HOW can typically be used for food applications due to very low migration levels.

Film properties have been measured at film of 50 µm with a BUR of 3. The film has been produced on Kiefel IBC blown film line with 200 kg/h. Die size 200 mm, die gap 0.8 mm.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

# TYPICAL PROPERTY VALUES

Revision 20211203

PROPERTIES		TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES				
Density		922	kg/m³	ISO 1183
Melt Flow Rate (MFR)				1
at 190 °C and 2.16 kg		0.85	dg/min	ISO 1133
OPTICAL PROPERTIES				
Gloss (45°)		68	‰	ASTM D2457
Haze		6	%	ASTM D1003
Clarity		15	mV	SABIC method
FILM PROPERTIES				
Impact strength		25	kJ/m	ASTM D4272
Tear strength TD		45	kN/m	ISO 6383-2
Tear strength MD		55	kN/m	ISO 6383-2
Tensile test film				
Stress at break TD		20	MPa	ISO 527-3
Stress at break MD		25	MPa	ISO 527-3
Modulus of elasticity TD		170	MPa	ISO 527-3
Yield stress TD		11	MPa	ISO 527-3
Tensile test film				
Strain at break TD		>500	%	ISO 527-3
Strain at break MD		>200	%	ISO 527-3
Coefficient of friction		1.0	-	ASTM D1894
Blocking		50	g	SABIC method
Re-blocking		100	g	SABIC method
THERMAL PROPERTIES				
Vicat Softening Temperature	e			
at 10 N (VST/A)		96	°C	ISO 306









### STORAGE AND HANDLING

Polyethylenes resins (in pelletised or powder form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in colour changes, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

### **ENVIRONMENT AND RECYCLING**

The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

### **DISCLAIMER**

DISCLAIMIER
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