Hostalen ACP 5331 H

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Hostalen ACP 5331 H is a state of the art HDPE resin, produced by latest Hostalen ACP technology.

Hostalen ACP 5331 H is easy processable on injection moulding and compression moulding equipment.

Exceptional organoleptic properties and a good balance of stiffness, toughness and environmental stress cracking resistance make Hostalen ACP 5331H the choice of customers for the production of closures for sparkling water, CSD and many other types of food and non-food caps and closures as well as tube shoulders.

This grade is not intended for use in medical or pharmacuetical applications.

General

Material Status	• Commercial: Active		
Literature [1]	• Processing - Mold Shrink (English) • Processing - PE Films (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Hostalen		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Features	• Food Contact Acceptable • Good Organoleptic Properties	• Good Processability • Good Stiffness	• Good Toughness • High ESCR (Stress Crack Resist.)
Uses	• Bottles • Caps	• Closures • Tubing	
Appearance	• Colors Available		
Forms	• Pellets		
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	2.1	g/10 min	
190°C/5.0 kg	6.3	g/10 min	
FNCT [3] (50°C)	> 9.0	hr	Internal Method

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1150	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-30°C)	5.0	kJ/m²	ISO 179

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	62		ISO 868
Ball Indentation Hardness (H 132/30)	51.0	MPa	ISO 2039-1

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	75.0	°C	ISO 306/B50

Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 230	°C