SABIC® HDPE ICP5505

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE ICP5505 is part of SABIC's new breakthrough high density polyethylene Industial Container Product portfolio. The grade meets latest market expectations regarding property balance and processing behaviour.
SABIC® HDPE ICP5505 is typically used for state of the art blow moulding UN approved Open Head drums, from 25 up to 220 liter and more. This food approved grade is also very suited for the production of UN approved Jerry Cans. It combines excellent rigidity and impact with optimal stress crack resistance and easy processing performance, which offers potential system cost reduction.
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Features	Rigidity, high High ESCR (Stress Cracking Resistance) Impact resistance, good Workability, good Compliance of Food Exposure		
Uses	Drum Container Oil drum		
Processing Method	Blow molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.955	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	5.0	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 23°C, Molded)	62		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (2.00 mm, Compression Molded)	1100	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 23°C, 2.00mm, molded	26.0	MPa	ISO 527-2/1BA/50
Fracture, 23°C, 2.00mm, molded	40.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1300	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	27.0	MPa	ISO 178
ESCR (Strain Hardening) - Gp	17.0	MPa	Internal method
Enthalpy Change	207	J/g	ISO 11357-3

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-30°C, Compression Molded)	34	kJ/m^2	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	82.0	°C	ISO 75-2/B
Vicat Softening Temperature	128	°C	ISO 306/A
Melting Temperature (DSC)	133	°C	ISO 11357-3

Recommended distributors for this material

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WECHAT