

DOW™ HDPE KS 10100 UE

High Density Polyethylene Resin

The Dow Chemical Company

Message:

HDPE KS 10100 UE polyethylene resin is a kind of high-density polyethylene resin, which has improved processing performance. When applied to outdoor environment, it has excellent impact strength, stress cracking performance and ultraviolet stability, and can reduce warpage to the lowest level.

remarks: when applied to the application field of contact food, HDPE KS 10100 UE polyethylene resin should meet the requirements of the U.S. food and drug administration regulations and the food contact regulations of most European countries without modification and the processing process follows the requirements of good manufacturing practices. Please contact your nearest Dow representative for proof of compliance with the Food Contact Act.

The purchaser remains responsible for determining whether the use of its products complies with all relevant regulations.

Application field:

dustbin

Large container

Parts requiring high strength

General Information			
Agency Ratings	FDA 21 CFR 175.1520		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.955	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	4.0	g/10 min	ISO 1133
190°C/5.0 kg	12	g/10 min	ISO 1133
Spiral Flow	63.5	cm	Internal method
Molding Shrinkage - Flow ¹ (250°C)	2.6	%	ASTM D955
Environmental Stress-Cracking Resistance ² (50°C, 100% Antarox, Compression Molded)	10.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	25.0	MPa	ASTM D638
Fracture, molding	27.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	> 1600	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	850	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	85.0	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ISO 306/A
NOTE			

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| 1. | 0.5 seconds injection |
| 2. | Gap |
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