

DOW[™] HDPE KS 10100 UE High Density Polyethylene Resin

Overview

HDPE KS 10100 UE Polyethylene Resin is a high density polyethylene resin designed to exhibit improved processability, excellent impact strength, stress crack resistance and UV stability for outdoor use, at minimum warpage.

Note: HDPE KS 10100 UE Polyethylene Resin should comply with FDA regulation 177.1520 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. Please, contact your nearest Dow office for food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Applications:

- Waste bins.
- Large containers.
- Tough parts.

Bhysical		Nominal Value (English)	Naminal Value (SI)	Teat Mathad
Additive	Antiblock: No	Slip: No	Processing Aid: No	

est Method	(SI)	Nominal Value	(English)	Nominal Value	Physical
STM D792	g/cm³	0.955	g/cm³	0.955	Density
SO 1133					Melt Index
	g/10 min	4.0	g/10 min	4.0	190°C/2.16 kg
	g/10 min	12	g/10 min	12	190°C/5.0 kg
STM D955 ¹	%	2.6	in/in	0.026	Molding Shrinkage - Flow (482°F (250°C))
STM D1693 ²					Environmental Stress-Cracking Resistance
	hr	10.0	hr	10.0	122°F (50°C), 100% Antarox, Compression Molded
ow Method ³	mm	635	in	25	Spiral Flow Length (482°F (250°C))
est Method	(SI)	Nominal Value	(English)	Nominal Value	Mechanical
STM D638					Tensile Strength
	MPa	25.0	psi	3630	Yield, Compression Molded
	MPa	27.0	psi	3920	Break, Compression Molded
STM D638					Tensile Elongation
	%	> 1600	%	> 1600	Break, Compression Molded
STM D790	MPa	850	psi	123000	Flexural Modulus - 2% Secant (Compression Molded)
est Method	(SI)	Nominal Value	(English)	Nominal Value	Impact
STM D1822	kJ/m²	85.0	ft·lb/in²	40.4	Tensile Impact Strength (Compression Molded)
est Method	(SI)	Nominal Value	(English)	Nominal Value	Hardness
SO 868		65		65	Shore Hardness (Shore D, Compression Molded)
est Method	(SI)	Nominal Value	(English)	Nominal Value	Thermal
SO 306/A	°C	128	°F	262	Vicat Softening Temperature
e	、 ,	Nominal Value	,	Nominal Value	Hardness (Shore D, Compression Molded) Thermal

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.5 seconds injection

² Notched

³ 2 seconds injection

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