

DOW[™] HDPE KT 10000 UE High Density Polyethylene Resin

Overview

HDPE KT 10000 UE Polyethylene Resin is an UV stabilised resin with very narrow molecular weight distribution. It was developed to impart excellent stiffness, combined with good impact strength to injection moulded parts, at minimum warpage.

Note: HDPE KT 10000 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:

- · Cases and boxes for industrial parts.
- · Farm produce and beverage crates.
- Pails and buckets.

Additive • Antiblock: No		Slip: No		Processing Aid: No		
Physical		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density		0.964	g/cm³	0.964	g/cm³	ASTM D792
Melt Index						ISO 1133
190°C/2.16	kg	8.0	g/10 min	8.0	g/10 min	
190°C/5.0 k	g	22	g/10 min	22	g/10 min	
Spiral Flow ^{1, 2}	2	28.9	in	73.5	cm	Dow Method
Molding Shrin	kage - Flow	0.021	in/in	2.1	%	ASTM D955
Environmenta (ESCR)	I Stress-Cracking Resistance					ASTM D1693
100% Antai Molded	rox CO-630, Compression	2.50	hr	2.50	hr	
Mechanical		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Streng	gth					ASTM D638
Yield, Com	pression Molded	4210	psi	29.0	MPa	
Break, Corr	pression Molded	4640	psi	32.0	MPa	
Tensile Elonga	ation					ASTM D638
Break, Corr	pression Molded	800	%	800	%	
Flexural Modu (Compression	ılus - 2% Secant ı Molded)	152000	psi	1050	MPa	ASTM D790
Impact		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Impac	t Strength (Compression Molded)	36.6	ft·lb/in²	77.0	kJ/m²	ASTM D1822
Hardness		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Shore Hardness (Sh	ore D, Compression Molded)	66		66		ISO 868
Thermal		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Vicat Softenin	g Temperature	268	°F	131	°C	ISO 306/A

Notes

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

¹ Melt Temperature: 482°F (250°C)

² 2 seconds injection

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