

# DOW™ HDPE KT 10000 UE

High Density Polyethylene Resin

The Dow Chemical Company

Message:

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.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.964	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	8.0	g/10 min	
190°C/5.0 kg	22	g/10 min	
Spiral Flow	73.5	cm	Internal Method
Molding Shrinkage - Flow	2.1	%	ASTM D955
Environmental Stress-Cracking Resistance (100% Antarox CO-630, Compression Molded)	2.50	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	29.0	MPa	
Break, Compression Molded	32.0	MPa	
Tensile Elongation (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	1050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	77.0	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	131	°C	ISO 306/A

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