

DOW™ HDPE 25055E

High Density Polyethylene Resin

The Dow Chemical Company

Message:

POLYETHYLENE HIGH DENSITY 25055E High Density Polyethylene Resin is a very narrow molecular weight distribution resin, developed to impart excellent mechanical properties, high gloss and high surface finishing to injection moulded parts, while providing easy processing.

Applications:

Housewares

Food containers

Toys

Complies with:

EU, No 10/2011

U.S. FDA 21 CFR 177.1520

Canadian HPFB (No Objection)

Consult the regulations for complete details.

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520		
	HPFB (Canada) No Objection 2		
Forms	Pellets		
Processing Method	Injection Molding		
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	25	g/10 min	
190°C/5.0 kg	62	g/10 min	
Spiral Flow	109	cm	Internal Method
Molding Shrinkage - Flow	2.1	%	ASTM D955
Environmental Stress-Cracking Resistance (100% Antarox CO-630, Compression Molded)	0.700	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	25.0	MPa	
Break, Compression Molded	27.0	MPa	
Tensile Elongation (Break, Compression Molded)	200	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	870	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Tensile Impact Strength (Compression Molded)	55.0	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ISO 306/A

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