

Hostalen GD7255

Polyethylene, High Density

Product Description

Hostalen GD 7255 is a high density polyethylene (HDPE) resin used in general injection molding applications such as pallets and dust bins. Hostalen GD 7255 is available in pellet form, and exhibits high ESCR, good impact resistance, flowability and low warpage. Hostalen GD 7255 is not intended for use in medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Injection Molding
Features	Antioxidant, High Density, Good Flow, High Impact Resistance , Good Processability, High Rigidity , Low Warpage
Typical Customer Applications	Caps & Closures, Crates, Housewares, Industrial, Panels & Profiles, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.955	g/cm ³
Melt flow rate (MFR)	ISO 1133		
(190°C/2.16kg)		4.0	g/10 min
(190°C/5.0kg)		11.0	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1200	MPa
Tensile Stress at Yield	ISO 527-1, -2	27	MPa
Tensile Strain at Yield	ISO 527-1, -2	8	%
ESCR (Basell)	Basell Method	4.5	h
Note: FNCT (Full Notched Creep Test), 6MPa, 2% Arkopal, 50°C			
Impact			
Charpy notched impact strength	ISO 179		
(23, Type 1, Edgewise, Notch A)		4.0	kJ/m ²
(-30, Type 1, Edgewise, Notch A)		4.5	kJ/m ²
Hardness			
Shore hardness (Shore D)	ISO 868	60	
Ball indentation hardness	ISO 2039-1	52	MPa
Thermal			
Vicat softening temperature B/50	ISO 306	73	°C

Additional Properties

Recommended processing temperature 180°C - 250°C

