

HDPE**HDPE HS GC 7260****HIGH DENSITY POLYETHYLENE (HDPE)**

This grade is a high-density polyethylene resin used in general injection moulding applications such as closures, toys, housewares and packaging. It demonstrates good flowability and high rigidity and has been extensively used in injection moulding and other conversion processes. This product is supported for use in drinking-water applications and is not intended for use in medical and pharmaceutical applications.

Typical Application

- Caps and closures
- Crates and turnover boxes (returnable transport containers)
- Housewares
- Industrial components
- Panels and profiles
- Sports, leisure and toy articles

Product Characteristics

- Good flow and good overall processability
- High density with high rigidity
- Low warpage for consistent part dimensions
- Contains antioxidants

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (190°C/2.16 kg)	ISO 1133-1	8.0	g/10 min
Melt Flow Rate (190°C/5.0 kg)	ISO 1133-1	23	g/10 min
Density	ISO 1183-1	0.960	g/cm ³
Tensile Modulus	ISO 527-1,-2	1450	MPa
Tensile Stress at Yield	ISO 527-1,-2	30	MPa
Tensile Strain at Yield	ISO 527-1,-2	7	%
Full-Notch Creep Test (6.0 MPa, 2% Arkopal N100, 50°C)	ISO 16770	2.5	h
Charpy Impact Strength - Notched (23°C, Type 1, Edgewise, Notch A)	ISO 179	4.0	kJ/m ²
Charpy Impact Strength - Notched (-30°C, Type 1, Edgewise, Notch A)	ISO 179	4.5	kJ/m ²
Shore Hardness D (15 s)	ISO 868	61	-
Ball Indentation Hardness (H 132/30)	ISO 2039-1	58	MPa
Vicat Softening Temperature (B50)	ISO 306	74	°C

Processing Guidelines

Recommended melt temperature range 180-250°C for injection moulding. Good flowability provides efficient fill across multi-cavity moulds and complex geometries while maintaining low warpage and consistent part dimensions.

- 1. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.*
- 2. Typical values per the producer's published family data; grade-specific certificate of analysis supplied per lot at order.*