



DATA SHEET

ALTOFLEX® HDPE 180

Description: Homopolymer that enhances processing and stiffness, this product exhibits good processing stability, excellent color and low odor.

Applications:

- Crates
- Pallets
- Trays
- Tote boxes

Resin Properties	Method	Typical Value
Density	ASTM D1505	0.965 g/cm ³
Melt Index, 190/2.16	ASTM D1238	8.0 g/10 min
Film Properties	Method	Typical Value
Tensile Stress at Yield, (23° C)	ASTM D638	32.7 MPa
Tensile Stress at Break, (23° C)	ASTM D638	28.2 MPa
Tensile Elongation at Break, (23°C)	ASTM D638	16.5 %
Tensile Elongation at Yield, (23°C)	ASTM D638	6.1 %
Tensile Modulus, 1% Secant	ASTM D638	1230 MPa
Flexural Modulus 1% Secant 2% Secant	ASTM D790	1,767 MPa 1,480 MPa
Tensile Young 's Modulus	ASTM D638	1405 MPa
Impact	Method	Typical Value
Notched Izod Impact Strength, 23°C	ASTM D256	35 J/m
Hardness	Method	Typical Value
Shore Hardness, (Shore D, max)	ASTM D2240	67
Thermal	Method	Typical Value
Vicat Softening Temperature	ASTM D1525	125 °C
Low Temperature Brittleness, F ₅₀	ASTM D746	<-76 °C
Deflection Temperature Under (Load, 66 psi, Unannealed)	ASTM D648	81.5 °C
Melting Temperature	ASTM D3418	132° C
Crystallization Temperature	ASTM D3418	120° C

Note:

Typical properties: these results are not to be construed as specifications. The user must confirm the results by their own methods.

Conditions of Tensile Stress and Elongation values are: 50 mm/min, Type IV Specimen.

Conditions of Flexural Modulus values are: 12.5 mm/min.

Conditions of Tensile Modulus values are: 50 mm/min, Type I Specimen.