

Polypropylene H 604

Sub-group:

Homopolymer

Description:

H 604 is a low melt flow rate polypropylene with high transparency. This resin is designed for thermoforming, blow molding and general extrusion. H 604 exhibit excellent processability and high output, excellent stiffness/impact strength balance, high melt strength, outstanding optical properties and low odor/taste transfer.

Applications:

High transparency thermoformed packaging for food; High transparency bottles for mineral water, cosmetic, health care and cleaning products; Flat and corrugated sheets for school and office folders

Processing:

Thermoforming

Blow Moulding

Extrusion

Control Property:

	ASTM Method	Units	Values
Melt Flow Rate (230/2.16)	D 1238	g/10 min	1.5

Typical Properties^a:

	ASTM Method	Units	Values
Density	D 792	g/cm ³	0.905
Flexural Modulus – 1% secant	D 790	GPa	1.4
Tensile Strength at Yield	D 638	MPa	36
Tensile Elongation at Yield	D 638	%	12
Rockwell Hardness (R Scale)	D 785	-	98
Notched Izod Impact Strength at 23°C	D 256	J/m	52
Deflection Temperature under Load at 1.820 MPa	D 648	°C	57
Deflection Temperature under Load at 0.455 MPa	D 648	°C	102
Vicat Softening Temperature at 10 N	D 1525	°C	149
Haze ^b	D 1003	%	20

a) Injection molded specimen according to ASTM D 4101. b) Specimen thickness: 1 mm.

