

Braskem PP H 604

Polypropylene Homopolymer

Braskem

Message:

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

General Information			
Features	Good Impact Resistance		
	Good Melt Strength		
	Good Processability		
	Good Stiffness		
	Homopolymer		
	Low Odor Transfer		
	Non-Toxic		
	Opticals		
Uses	Bottles		
	Corrugated Sheet		
	Cosmetics		
	Personal Care		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale, Injection Molded	101		ASTM D785
R-Scale	98		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	36.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Yield, Injection Molded)	12	%	ASTM D638, ISO 527-2
Flexural Modulus			
1% Secant : Injection Molded	1350	MPa	ASTM D790
Injection Molded	1550	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, Injection Molded	50	J/m	ASTM D256
23°C, Injection Molded	3.9	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, Injection Molded	101	°C	ASTM D648
0.45 MPa, Unannealed	102	°C	ISO 75-2/B
1.8 MPa, Unannealed, Injection Molded	57.0	°C	ASTM D648
1.8 MPa, Unannealed	57.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	146	°C	ASTM D1525 ¹
--	149	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Haze			
Injection Molded	20	%	ISO 13468-1
1000 µm, Injection Molded	27	%	ASTM D1003
NOTE			

1. Loading 1 (10 N)

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