

Polypropylene Homopolymers



FABRICATION FAMILY			EXTRUSION		FIBER					FILM			MOLDING				
GRADE NAME			H1002NA	H1003N	H5103	H5104 H5104A	H5012G	H5025G	H5235G	H3003	H3209	H3010SB	H7012 H7012N H7012S	H7020S	H7035 H7035N H7035E	H7050E	H7060E
PRIMARY APPLICATION			Thermo-forming/ Extrusion blow molding	Thermo-forming/ Extrusion blow molding	Raffia	Raffia	Staple	Multi-Filament	Spunbond	BOPP	Cast Film	TWQ	Consumer/ Housewares	Caps and closures	Packaging	Packaging	Packaging
PROPERTIES	UNITS	TEST METHOD	NOMINAL VALUES														
Melt Flow Rate (2.16 kg at 230°C)	g/10 min	ASTM D1238	1.8	3.0	3.5	4.0	12.0	25.0	35.0	3.4	8.8	10.0	12.0	20.0	35.0	50.0	60.0
Tensile Strength @ Yield 50 mm/min (2 in/min)	MPa (psi)	ASTM D638	37 (5,350)	31 (4,500)	37 (5,350)	37 (5,350)	37 (5,350)	37 (5,350)	32 (4,650)	33 (4,800)	36 (5,200)	36 (5,200)	36 (5,200) 36 (5,350) 37 (5,350)	37 (5,350)	35 (5,100)	35 (5,100)	36 (5,200)
Tensile Elongation @ Yield	%	ASTM D638	8	8	8	8	7	7	7	9	8	8	7	7	7	6	5
Flexural Modulus 1% Secant 1.3 mm /min (0.05 in/min)	MPa (psi)	ASTM D790	1800 (261,000)	1850 (268,000)	1600 (232,000)	1600 (232,000)	1600 (232,000)	1550 (225,000)	1300 (189,000)	1450 (210,000)	1540 (223,000)	1600 (232,000)	1550 (225,000) 1790 (260,000) 1700 (247,000)	1700 (247,000)	1650 (239,000) 1800 (261,000) 1800 (261,000)	1800 (261,000)	1750 (254,000)
Notched Izod Impact Strength @ 23°C	J/m (ft-lb/in.)	ASTM D256A	45 (0.8)	40 (0.7)	40 (0.7)	40 (0.7)	35 (0.7)	25 (0.5)	20 (0.4)	50 (0.9)	35 (0.7)	30 (0.6)	30 (0.6)	25 (0.5)	20 (0.4)	20 (0.4)	20 (0.4)
Heat Deflection Temperature (HDT) @ 0.45 MPa/ (66 psi)	°C (°F)	ASTM D648	110 (230)	95 (203)	104 (219)	106 (223)	104 (219)	104 (219)	104 (219)	104 (219)	104 (219)	104 (219)	104 (219)	104 (219)	110 (230)	110 (230)	110 (230)
Main Feature			Clarified and anti-stat	High clarity	Multi-purpose	Multi-purpose	Anti-gas fading	Anti-gas fading	Narrow MWD/ Anti-gas fading	High speed	High clarity	Slip and antiblock with improved optics and openability	Barefoot for master-batch/ Others multi-purpose	Multi-purpose	Low taste and odor	Low taste and odor/ fast cycle time/high stiffness	Low taste and odor/ low warpage
Application Details			Drinking cups, portion cups, bakery and produce trays	Clear drinking cups, portion cups, bakery and produce trays	25 kg bags, jumbo bags, carpet backing, rope, twine, straws and tubing, general purpose additives	25 kg bags, carpet backing, straws, tubing, general purpose additives	Yarns and non-wovens for furniture, automotive, carpet backing, wall coverings, suitable for short spin process	Carpet face yarn	Spunbond grade for diapers and hygiene applications	High speed BOPP metallizable film	Stationary, sheet protectors, photo albums, DVD case covers, packaging	Clear packaging: garments, dress shirts, electronic parts, portion filled shampoos	Packaging, consumer housewares	Large caps & closures for wide mouth containers, general purpose injection molding of thick parts	Food packaging, multimedia cases, cosmetic cases, personal products, large lids	Food packaging, multimedia cases, cosmetic cases, personal products, large lids	Food packaging, multimedia cases, cosmetic cases, personal products, large lids

Suffice Legend: A = Anti-static; B = Anti-block; G = Anti-gas fading; H = Heat stabilized; N = Nucleated/clarified; S = Slip/mold release; U = UV stabilizer; Z = Others