

Polypropylene Homopolymers



FABRICATION FAMILY			EXTRUSION		FIBER				FILM			MOLDING					
GRADE NAME			H1002NA	H1003N	H5103	H5104	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	Tubular Water Quenched (TWQ)	Consumer/ Housewares	Caps & Closures	Packaging	Packaging	Packaging
PROPERTIES	UNITS	TEST METHOD															
Melt Flow Rate <i>(2.16 kg at 230°C)</i>	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 <i>50 mm/min (2 in/min)</i>	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) 37 (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 <i>1% Secant 1.3 mm/min (0.05 in/min)</i>	MPa (psi)	ASTM D790	1800 (261,000)	1850 (268,000)	1600 (232,000)	1600 (232,000)	1600 (232,000)	1600 (232,000)	1300 (189,000)	1450 (210,000)	1540 (223,000)	1600 (232,000)	1550 (225,000) 1790 (260,000) 1700 (247,000)	1700 (247,000)	1600 (232,000) 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 & anti-block with Improved optics & 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 drink-ing 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, and 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, and packaging	Clear packaging: garments, dress shirts, electronic parts; portion filled shampoos	Packaging and consumer / house-wares	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; E = Nucleation & Mold Release; G = Anti-gas fading; H = Heat stabilized; N = Nucleated/clarified; S = Slip/mold release; U = UV stabilizer; Z = Others