

Qurain® Polypropylene Technical Data Sheet

			INJECTION MOLDING RESINS				TEXTILE RESINS		FILM RESINS		
			Homopolymer			Impact Copolymer		Homopolymer		Homopolymer	
Properties	Test Method	Units	HM080	HM110	HM250	IM080	IM280	HT031	HT251	HF029	HF111
Melt Flow Rate	ASTM D1238(230/2.16)	g/10Min	8	11	25	8	28	3	25	2.9	11
Tensile Yield Strength	ASTM D638	Mpa	34	34	33	22	22	35	33	34	33
Tensile Yield Elongation	ASTM D638	%	8	7	11	7	7	9	11	9	7
Flexural Modulus	ASTM D790A	Mpa	1,330	1,380	1,150	780	770	1,280	1,100	1,250	1,380
Notched Izod Impact	ASTM D256(23° C)	J/m				120	80				
Gardner Impact	ASTM D3029(-30°C)	J				19	14				
Rockwell Hardness	ASTM D798	R value	R102	R104	R104	R75	R75	R102	R95	R102	R102
Heat Deflection Temperature	ASTM D648	°C	104	104	104	85	100	101	104	101	104
Vicat Softening Temperature	ASTM D1525B	°C	152	152	152	146	152	152	152	152	152
Features			Medium flow, good gloss, High stiffness	Excellent mold filling, Antistatic properties Good gloss, High stiffness	Very high flow, Good color, Excellent gloss, High stiffness	Good mold flow, Good long term heat aging resistance, Good stiffness and impact balance	High mold flow, easy ejection of parts from the mold, Good long term heat aging resistance, Good impact strength	Low water carry over, Easy penetration of tufting needle in carpet backings, High tenacity, Good dimensional stability of tapes	Higher throughputs, Good resistance to long term aging, good high temperature processability, high purity, good resistance gas fading	Easy processability, Excellent thermal stability, good film clarity and gloss, High purity	Good bubble stability, good film clarity and sparkle suitable for high speed converting operations
Application			Household items, toys and other general purpose molding applications	Rigid packaging and closures	Thin-walled packaging closures, moldings of flat surfaces and applications involving fast cycle multi-cavity injection	Battery containers, automotive parts and other applications requiring toughness	Thin-walled containers that require increased impact strength and articles having thicker sections with long flow paths	Stretched tapes from cast film extrusion process for a variety of woven products such as packaging fabrics, Industrial and geotextile fabric and carpet backing also suitable for producing twist fibrillated ropes and twines	BCF, low denier staple fiber and spunbonded non-wovens	BOPP films for packaging foodstuff such as, cereal, candy, snacks, processed cheese, meat and poultry wraps and textile packaging, bottle labels and pressure sensitive tapes and labels	TQ blown films for packaging applications, such as bread and baked goods, pasta, dairy products, meat and poultry, produce wraps and candy wraps, and garment and textile packaging