

**Mark Gonsenhauser's Rug and Carpet Superstore  
Carpet Fiber Chart**

<b>Carpet Fiber-----&gt; Characteristics:</b>	<b>Wool</b>	<b>Nylon</b>	<b>Polypropylene Olefin</b>	<b>Triexta Sorona</b>	<b>Polyester</b>
Resiliency -- Determined by fiber structure and modifications.	Good to excellent	Excellent	Excellent	Excellent	Good to excellent
Abrasion Resistance -- Determined by fiber and density of face fiber -- the more tightly packed the yarns, the more resistant to wear.	Good to excellent	Excellent	Excellent	Excellent	Good to excellent
Soil & Stain Resistance/Cleanability -- Determined by color, texture, dyes, fiber structure and modifications.	Good to excellent	Good to excellent	Good if oily soils and stains are treated promptly.	Excellent	Good to excellent -- oily stains should be promptly treated.
Resistance to Sunlight -- Determined by fiber structure and modifications.	Poor -- If protected from ultraviolet rays, degradation does not occur as rapidly.	Good -- special dyes may be used to inhibit sun damage.	Loses strength and deteriorates unless chemically modified to resist sunlight damage.	Excellent	Good -- may weaken with prolonged exposure.
Static -- Determined by fiber structure and modification.	Builds up in low humidity unless modified.	Builds up in low humidity unless modified.	Builds up in low humidity but at a lower level than nylon or polyester	Builds up in low humidity unless modified.	Builds up in low humidity unless modified.
Hand feel	Warm, soft	Varies from warm and soft to cold and coarse.	Waxy, soft	Warm, soft	Varies -- finer deniers are soft and silky.
Resistance to Mildew -- Determined by fiber structure and modifications	Poor if damp or soiled.	Fiber may be modified	Excellent	Excellent	Excellent
Flammability -- Determined by fiber structure, modification, construction methods, dyes, padding and carpet installation methods	Burns slowly indirect flame; considered self-extinguishing. Burning hair odor.	Burns slowly, melts in direct flame; self-extinguishing. Structure may alter what occurs. Celery-like odor.	Melts at low temperatures (170°C); burns and emits heavy, sooty, waxy smoke. Paraffin wax odor. Pulling a heavy object across the carpet surface can cause enough friction to melt the carpet fibers.	Burns slowly, melts; some are self-extinguishing. Chemical odor.	Burns slowly, melts; some are self-extinguishing. Chemical odor.