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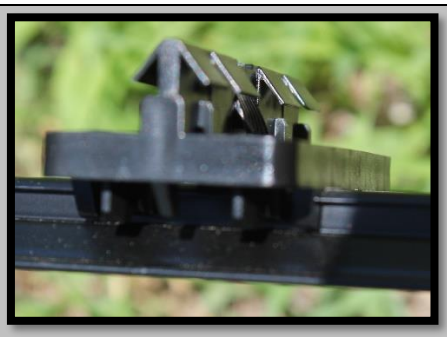

The Grad *Clip* is made of Polyoxymethylene(POM)

Material	(POM)Polyoxymethylene	
Usable Temperature	-40°F a +140°F	-40°C a +60°C
Stress at yield Point	64 M Pa	9282 psi
Elasticity modulus in traction	2.8 Gpa	406105.7 psi
Melting temperature	166°C	330.8°F
Density	1.14g/cm^3	0.04119 lb/in3
Tearing Strength	160kg/fixing point	352.74 lbs/fixing point

Polyoxymethylene resins demonstrate well-balanced properties ranging for mechanical to physical and flammability performance. The key benefits of POM resins include:

- **Excellent mechanical properties over a temperature range up to 140°C, down to -40°C**
- **High tensile strength, rigidity and toughness (short-term)**
- **Low tendency to creep (as compared to nylon) and fatigue (long-term). Not susceptible to environmental stress cracking**
- **High degree of crystallinity and excellent dimensional stability**
- **Excellent wear resistance**
- **Low coefficient of friction**
- **Good resistance to organic solvents and chemicals (except phenols) at room temperature**
- **Low smoke emission**
- **High gloss surfaces**
- **Low moisture absorption**
- https://omnexus.specialchem.com/selection-guide/polyacetal-polyoxymethylene-pom-plastic

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The Grad *Rail* is made of EN AW-6060 T66 Aluminum

Mechanical Properties			
Type of aluminium used with Grad: EN AW-6060 T66			
Properties			EN AW-6060
Heat Treating			**T66**
Breaking Strength	Rm min	MPa	**215**
Elastic limit	$R_{e0.2}$ min	Mpa	**160**
Wall Thickness		mm	**≤13**
Minimum Elongation	A_{50}	%	**6**
Modulus of Elasticity	E	MPa	70000
Coefficient of Linear Expansion	α	10^{-6}/K	24
Melting Point	Tsм	°C	585-655
Heat Transfer Coef	λ	W/mK	160