

## Samyang Tramid<sup>®</sup> 210G45 Polyamide, Reinforced

Category : Polymer , Thermoplastic , Nylon

**Material Notes:**

Strong with excellent thermal resistance. Abrasion resistance, chemical resistance and oil resistance are excellent. 210G45 is a reinforced grade. Applications: Automotive gear level housing Connectors Intake manifolds Thermostat housing Cooling radiator modules Sprinkler Water pipes Fan and shroud ECU cases Cylinder head cover Industrial ball valve Information provided by Samyang.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samyang-Tramid-210G45-Polyamide-Reinforced.php](http://www.lookpolymers.com/polymer_Samyang-Tramid-210G45-Polyamide-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	226 MPa	32700 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	299 MPa	43400 psi	ASTM D790
Flexural Modulus	11.5 GPa	1660 ksi	ASTM D790
Izod Impact, Notched	1.47 J/cm @Thickness 3.17 mm	2.76 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	263 Å°C	505 Å°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	254 Å°C	489 Å°F	ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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