

Mineral Filled Polypropylene

DESCRIPTION:

Mineral filled polypropylene provides high mechanical stiffness, thermal stability, good low temperature properties and good dimensional stability over a wide temperature range. Available as a natural colored, colorable, UV stabilized compound.

PROPERTY	TYPICAL VALUE	UNITS	ASTM METHOD
PHYSICAL			
Hardness	66	Shore D	D-2240
Specific Gravity	1.10		D-792
Melt Flow Rate (230°C, 2.16 kg)	0.97	g/10 min	D-1238 <i>Procedure A</i>
MECHANICAL			
Flexural Modulus	450,000	psi	D-790 <i>I.B., TAN, 0.5 in/min</i>
Tensile Strength @ Yield	4,000	psi	D-638 <i>IV, 2 in/min</i>
Elongation @ Break	223	%	D-638
Gardner Impact			D-5420-96
	@ 23°C	280	in-lb
	@ -30°C	>200	in-lb
Notched Izod Impact			D-256
	@ 23°C	16.5	ft-lb/in
	@ -30°C	1.2	ft-lb/in
THERMAL			
Heat Deflection Temp			D-648
	0.125 in @ 66 psi	237	° F
	0.125 in @ 264 psi	149	° F
Coefficient of Linear Thermal Expansion	2.6 x 10 ⁻⁵	in/in/°F	D-696 (-22°F to 176°F)
Coefficient of Linear Thermal Expansion	1.3 x 10 ⁻⁵	in/in/°F	Intek method (-40F to 160F)
Dimensional Stability	Less than 0.3	%	D-1042 (180 F / 30 min)

The information provided above is based on typical values, and is believed to be reliable. No warranty is given as to the suitability of the product for a particular application. Determination of the suitability of this product for any use is solely the responsibility of the user.