



## Plastics Corporation

### HIPS General Purpose Extrusion Grade

GENERAL	ASTM TEST	ENGLISH VALUES	UNITS
Specific Gravity/Density	D-792	1.04	lb/ft <sup>3</sup>
Mold Shrinkage 1/8" Bar	D-956	.003 - .007	in/in
Hardness, Rockwell	D-785	R95	--
Reinforcement Content			%
Water Absorption (24 hr.)	D-570		%
<b>MECHANICAL</b>			
Tensile Strength	D-638	2,750	psi
Elongation @ Break	D-638	52	%
Flexural Modulus	D-790	275,000	psi x 10 <sup>5</sup>
Flexural Strength	D-790	6,000	psi
Izod Impact	D-256	2	ft lb/in
<b>THERMAL</b>			
Heat Deflection Temp.	D-648	189	F @ 66psi
Heat Deflection Temp.	D-648	165	F @ 264psi
<b>ELECTRICAL</b>			
Dielectric Strength	D-149		V/mil
Volume Resistivity	D-257		Log 10 OHM in <sup>2</sup> /in
Arc Resistance	D-495		sec.
<b>FLAMMABILITY</b>			
1/16"	UL	HB	
1/8"			
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Flow Rate MFR 230 C/3.8 kg	D-1238	2	g/10 min
Intrinsic Melt Viscosity	D-3835		poise

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