

Product Description
HDPE

Special Characteristics
• High Density Polyethylene Master Batch

General Properties	
Appearance	Natural
Processing Methods	Injection Molding
Applications	Automotive, Business Equipment, Material Handling

Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	4,100	psi	28	MPa
Tensile Strength @ Break	ASTM D638	7,830	psi	54	MPa
Tensile Modulus	ASTM D638	135,000	psi	931	MPa
Tensile Elongation at Break	ASTM D638	4.4	%	4.4	%
Flexural Modulus	ASTM D790	214,000	psi	1,476	MPa
Notched Izod Impact (73°F)	ASTM D256	0.1	ft-lb/in	5	J/m
Notched Izod Impact (-40°F)	ASTM D256	0.5	ft-lb/in	27	J/m
Notched Izod Impact (32°F)	ASTM D256	1.0	ft-lb/in	53	J/m
Un-notched izod	ASTM D256	5.2	ft-lb/in	278	J/m

Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.10	sp gr	1.10	sp gr
Melt Flow	ASTM D1238	30.0	g/10min	30.0	g/10min
Filler Content		20.0	%	20.0	%

Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	181	°F	83	°C

Injection Molding	Value	
Rear Barrel Temperatures	450	°F
Middle Barrel Temperatures	450	°F
Front Barrel Temperatures	450	°F
Nozzle Temperature	460	°F
Melt (processing) Temperatures	430	°F
Mold Temperatures	140	°F
Back Pressure	50	psi
Screw speed	100	rpm

These Data Sheet Values are Typical Values and are not intended for specification purposes. These values should only be used as a guide and no assurances by EnCom, Inc. can be granted that all molded articles will exhibit duplicate properties as those listed above. Each material user should perform their own testing for suitability.

Chemblend FFD0013



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