

The Specialists for Resin Distribution & Compounding

POLYPROPYLENE MOLDING COMPOUNDS TYPICAL PROPERTIES

Properties	Test Method	Units	PP Polypropylene	PP GF20(HS) Polypropylene, 20% Glass Reinforced	PP GF30(HS) Polypropylene, 30% Glass Reinforced	PP GF40(HS) Polypropylene, 40% Glass Reinforced
Physical						
Specific Gravity	ASTM-D792	----	0.91	1.04	1.13	1.22
Water Absorption (24 hr)	ASTM-D570	%	0.01	0.015	0.025	0.055
Mechanical						
Tensile Strength	ASTM-D638	psi	5,000	9,000	10,000	10,600
Tensile Elongation	ASTM-D638	%	150	3	2	1.5
Flexural Strength	ASTM-D790	psi	7,000	11,000	12,5000	13,000
Flexural Modulus	ASTM-D790	psi	180,000	650,000	825,000	1,000,000
Izod Impact Strength	ASTM-D256	ft. lb./in.				
Notched (1/8")			0.4	1.5	1.7	1.9
Unnotched (1/8")			15.0	7	6	5.0
Rockwell Hardness	ASTM-D785	R Scale	90	112	112	112
Thermal						
Melting Point	ASTM-D789	°C	163	163	163	163
Heat Deflection Temp.	ASTM-D648	°F				
66 psi			225	305	315	325
264 psi			130	285	295	300
Coefficient of Linear Thermal Expansion	ASTM-D696	in./in./°F X 10 ⁻⁵	3.8	2.4	2.1	1.7
Electrical						
Dialectric Strength (S/T)	ASTM-D149	volts/mil	650	530	515	500
Miscellaneous						
Flammability	UL Subj. 94	----	HB	HB	HB	HB
Mold Shrinkage (1/8")	ASTM-D955	in./in.	0.020	0.0045	0.0040	0.0035

Suggested processing parameters are available upon request. Seller is not responsible or liable for any loss or damage resulting from product use, and no warranty is stated or implied.



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