

Kotex Polycarbonate Resin

Grade Name: R-60 Black

Property	Test method (ASTM)	Conditions	Unit	Data
Mechanical Properties				
Tensile strength	D-638	-----	MPa kgf/cm ² lbf/in ²	63 640 9070
Tensile elongation at break	D-638	-----	%	120
Flexural strength	D-790	-----	MPa kgf/cm ² lbf/in ²	85 870 12300
Flexural modulus	D-790	-----	MPa kgf/cm ² lbf/in ²	2160 22000 313000
Izod impact strength	D-256	23°C V-notch 1/8"	J/m kgf·cm/cm ft·lbf/in	830 85 15
Rockwell hardness	D-785	R scale	-----	120
Thermal Properties				
Heat deflection temperature.	D-648	18.6 kgf/cm ²	°C °F	133 271
Melt flow index	D1238	300°C 1.2kg	g/10min	6-10
Electrical Properties				
Volume resistivity	D-257	-----	Ω · cm	10 ¹⁶
Arc resistance	D-495	-----	sec	110
Dielectric constant	D-150	10 ⁶ Hz	-----	2.9
Other Properties				
Molecular Weight	-----	-----	-----	23000-25000
Specific gravity	D-792	-----	-----	1.20
Water absorption	D-570	23°C	%	0.15
Flammability	UL-94	-----	-----	-

All data contained herein are believed to be correct and are given in good faith. No liability is accepted for the accuracy or completeness of such information.

Kotec Corporation