



Phone: (810) 326-1451 Fax: (586) 408-6363
 www.dynamicpolymer.com

Technical Data Sheet

DYN-PC Black

General Purpose, Molding Grade Polycarbonate

Typical Compound Properties	Value / Measure		Test Methods
Physical Properties			
	English Units	Metric Units	
Density	1.2 g/cm ³	1.2 g/cm ³	ASTM D-792
Melt Flow Rate @ 300° / 1.2kg	15 g/10 min		ASTM D-792
Mechanical Properties			
Izod Impact - Notched	13 ft-lb/in	695 J/m	ASTM D-256
Tensile Strength @ Yield	9,100 psi	63 MPa	ASTM D-638
Tensile Elongation @ Break	145 %	145 %	ASTM D-638
Flexural Strength @ Yield	13,600 psi	94 MPa	ASTM D-790
Flexural Modulus	340,000 psi	2,346 MPa	ASTM D-790
Thermal Properties			
DTUL @ 66 psi (455 kPa)	275 Deg. F	136 Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	265 Deg. F	130 Deg. C	ASTM D-648

All tests are performed on dry as molded ASTM test bars.

General Product Type Information

DYN-PC, is also available with internal and external lubricants, UV stabilized and other modifications. Manufactured with recycled content. Further information and details are available upon request.

Processing Information

Temperatures		F	C
Barrel	Rear	520 - 560	273 - 296
	Center	540 - 580	284 - 307
	Front	560 - 600	296 - 318
	Nozzle	550 - 600	290 - 318
	Mold	160 - 200	72 - 94

Drying

Type	Dehumidifier
Temperature	245°F - 255°F
Time	3 - 4 hours
Max. % Moisture	0.05

The property values listed above have been obtained using laboratory controlled test methods. They are offered without guarantee since conditions under which the product is used are beyond our control. Therefore, Dynamic Polymer Solutions disclaims any liability for loss or damage incurred in connection with the use of this product. Optimum processing conditions will depend on such factors as machine size, screw design, part dimension, mold design, runner and gate design, and material residence time. These recommendations are intended only as a guide to achieve stable processing and good part quality.