



MAGNUM 9575

ABS Resin

MAGNUM™ 9575 ABS resin is thermoplastic material that provides an excellent balance of processability, impact resistance, and heat resistance as imparted by the various polymer compositions. The MAGNUM 9500 series of high gloss ABS resins are designed to offer a wide range of impact strengths and melt flow rates to meet the needs for the durables injection molding markets. The 9000 series products offer typical Izod impact strengths from 4.0 to 7.5 ft-lb/in and melt flow rates from 3.2 to 7.0 g/10 min. The gloss values are typically greater than 95% on the 60 degree Gardner scale for the highest gloss resins, and greater than 90% for those having a broader range of gloss. MAGNUM 9575 ABS is a medium flow, high gloss resin designed for high impact applications. It can be used widely in applications where a good balance of toughness and processability is required.

Applications

- High impact applications

Physical Properties ⁽¹⁾	Test Method	English Units	SI Units
Specific Gravity	ASTM D 792	1.04	1.04
Melt Flow Rate 230°C/3.8kg	ASTM D 1238		
		5.0 g/10 min	5.0 g/10 min
Mold Shrinkage, Cross Flow	ASTM D 955	0.004-0.007 in/in	0.004-0.007 cm/cm
Mechanical Properties ⁽²⁾			
Tensile Strength at Yield	ASTM D 638	5,820 psi	40 MPa
Tensile Elongation at Break	ASTM D 638	40 %	40 %
Tensile Modulus, 1 mm/min	ASTM D 638	338,000 psi	2330 MPa
Tensile Strength at Break	ASTM D 638	4,690 psi	32 MPa
Flexural Strength, 3-points, 2 mm/min	ASTM D 790	10,640 psi	73 MPa
Flexural Modulus, 3-points, 2 mm/min	ASTM D 790	384,000 psi	2648 MPa
Notched Izod Impact 73°F (23°C)	ASTM D 256	6.0 ft-lb/in	320 J/m
		2.7 ft-lb/in	144 J/m
Instrumented Dart Impact	ASTM D 3763		
Peak energy @ 73°F (23°C)		220 in-lb	25 J
Peak energy @ 0°F (-18°C)		175 in-lb	20 J
Total energy @ 73°F (23°C)		370 in-lb	42 J
Total energy @ 0°F (-18°C)		240 in-lb	27 J
Thermal Properties			
Deflection Temperature Under Load 66 psi (0.45 MPa), unannealed	ASTM D 648	199°F	93°C
264 psi (1.8 MPa), unannealed		172°F	78°C
Vicat Softening Point 120°C/hr, 10N	ASTM D 1525	224°F	106°C
UL Classification at 0.06 in (1.47 mm)	UL94	HB	HB
Optical Properties			
Gardner Gloss, 60°	ASTM D 523	95 %	95 %

