

EMAREX® 300

Polyamide 6
MRC Polymers, Inc.

Message:
Further information and details are available upon request.
Can be Heat Stabilized
Can be UV Stabilized
Available in Black ONLY

General Information			
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.2	%	ASTM D955
Water Absorption (24 hr)	1.6	%	ASTM D570
Relative Viscosity	50	mPa · s	ASTM D789
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	79.3	MPa	ASTM D638
Tensile Elongation (Break)	70	%	ASTM D638
Flexural Modulus	2690	MPa	ASTM D790
Flexural Strength	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648
1.8 MPa, not annealed	63.9	°C	ASTM D648
Melting Temperature	215	°C	ASTM D789
Injection	Nominal Value	Unit	
Drying Temperature	82.2 - 93.3	°C	
Dew Point	< -17.8	°C	
Suggested Max Moisture	0.20	%	
Rear Temperature	243 - 254	°C	
Middle Temperature	249 - 260	°C	
Front Temperature	254 - 266	°C	
Nozzle Temperature	254 - 271	°C	
Processing (Melt) Temp	254 - 271	°C	
Mold Temperature	37.8 - 82.2	°C	

Injection Pressure	68.9 - 138	MPa
Injection Rate	Moderate	
Back Pressure	0.345 - 1.21	MPa
Screw Speed	50 - 75	rpm
Cushion	6.35	mm

Injection instructions

Packing: 50 to 75% of injection pressureHold: 40 to 60% of injection pressureAir Flow Rate: 0.8-1.0 CFM per lb/hour resin processed

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Recommended distributors for this material

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