

ARTON F

Thermoplastic
JSR Corporation

Message:

ARTON F is a Thermoplastic material. It is available in North America for injection molding.
Important attributes of ARTON F are:
Flame Rated
Good Aesthetics
Good Processability
Heat Resistant
Moisture Resistant
Typical applications include:
Electrical/Electronic Applications
Automotive
Construction Applications
Containers
Film

General Information			
Features	Good Flow		
	Good Moldability		
	High Heat Resistance		
	Low to No Water Absorption		
	Opticals		
Uses	Automotive Applications		
	Construction Applications		
	Containers		
	Electrical/Electronic Applications		
	Film		
	Medical/Healthcare Applications		
Optical Data Storage			
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
260°C/10.0 kg	8.0	g/10 min	
280°C/10.0 kg	32	g/10 min	
Molding Shrinkage - Flow	0.60 to 0.80	%	ASTM D955
Water Absorption (Saturation, 23°C)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	73.5	MPa	ASTM D638
Tensile Elongation (Yield)	15	%	ASTM D638
Flexural Modulus	2940	MPa	ASTM D790
Flexural Strength (Yield)	123	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	20	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	162	°C	ASTM D648
Glass Transition Temperature	171	°C	DSC
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.19	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+16	ohms·cm	ASTM D257
Dielectric Constant (1 MHz)	2.74		ASTM D150
Dissipation Factor (1 MHz)	0.022		ASTM D150
Arc Resistance	123	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.510		ASTM D542
Transmittance (3200 μm)	92.0	%	ASTM D1003
Haze (3200 μm)	1.5	%	ASTM D1003

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