

ABS RX710

Injection Molding Grade

Description

Chemical Resistance to HCFC, High Impact

Application

Refrigerator Dispenser & Homebar

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.04
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220°C/10kg	ASTM D1238	g/10min	37
Mechanical				
Tensile Strength, 3.2mm @ Yield	50mm/min	ASTM D638	kg/cm ²	410
Tensile Elongation, 3.2mm @ Yield	50mm/min	ASTM D638	%	>5
@ Break	50mm/min		%	30
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm ²	
Flexural Strength, 3.2mm	15mm/min	ASTM D790	kg/cm ²	650
Flexural Modulus, 3.2mm	15mm/min	ASTM D790	kg/cm ²	22,000
Tear Strength @ Break	50mm/min	ASTM D624	kg/cm	
IZOD Impact Strength, 6.4mm (Notched)	23 °C	ASTM D256	kg·cm/cm	39
	-30 °C		kg·cm/cm	
IZOD Impact Strength, 3.2mm (Notched)	23 °C	ASTM D256	kg·cm/cm	48
	-30 °C		kg·cm/cm	
Rockwell Hardness	R-Scale	ASTM D785	-	97
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg	ASTM D648	°C	84
	4.6kg		°C	
Heat Deflection Temperature, 6.4mm (annealed)	18.6kg	ASTM D648	°C	85
	4.6kg		°C	
Vicat Softening Temperature	5kg, 50 °C/h	ASTM D1525	°C	91
	1kg, 120 °C/h		°C	
Flammability 1.7mm		UL94	class	HB
	3.0mm		class	

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection moulded specimens and after 48 hours storage at 23 °C, 50% relative humidity.

Updated : 14-Jun-17

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		℃	70 ~ 80
Drying Time		hrs	3 ~ 4
Recommended Moisture Content		%	Max. 0.1
Melt Temperature		℃	200 ~ 250
Cylinder Temperature	Rear	℃	180 ~ 200
	Middle	℃	190 ~ 230
	Front	℃	200 ~ 250
Nozzle Temperature		℃	200 ~ 250
Mold Temperature		℃	40 ~ 80
Back Pressure		kg/cm ²	5~10
Screw Speed		%	30 ~ 60

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

Note) Recommend initial lower temperatures settings to avoid material degradation/hang-up in die & purge material from extruder prior to shutdown.

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