



ABS XR418

Injection Molding Grade

Description

High Heat, Low emission

Application Automotives Interior parts

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Density		ISO 1183	g/cm ³	1.06
Molding Shrinkage (Flow), 3.2mm		ISO 294-4	%	0.4~0.7
Melt Flow Rate	220℃/10kg	ISO 1133	g/10min	6.0
Mechanical				
Tensile Strength		ISO 527		
@ Yield	50mm/min		MPa	48
Tensile Modulus	1mm/min	ISO 527	MPa	2,550
Flexural Strength	2mm/min	ISO 178	MPa	76
Flexural Modulus	2mm/min	ISO 178	MPa	2,650
IZOD Impact Strength, 80*10*4mm		ISO 180/1A		_,
(Notched)	23 ℃		kJ/m ²	14.0
	-30℃		kJ/m ²	-
Charpy Impact Strength, 80*10*4mm	000	ISO179/1eA	NU/111	
(Notched)	23 ℃		kJ/m ²	13.0
(Notelled)	-30℃		kJ/m ²	-
Rockwell Hardness	000	ISO 2039	-	113
		100 2000		110
Thermal				
Heat Deflection Temp. 120*10*4mm				
(unannealed)	1.8MPa	ISO 75/Be	Ĵ	90
	0.45MPa	ISO 75/Ae	°C	107
Vicat Softening Temperature		ISO 306		
	50N, 50℃/h		°C	108
CLTE, 23℃ to 60℃		ISO 11359-2		
Flow			10 ⁻⁵ m/m ℃	8.0~9.0
Cross-flow			10 ⁻⁵ m/m ℃	8.0~9.0
Flammability		UL94		
Relative Temperature Index		UL 746B		
Electrical			°C	
Mechanical with Impact			°C	
Mechanical without Impact			Ĵ	
			3	
Electrical				
Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23 ℃	IEC 60093	Ohm∙m	
Electric Strength, 1mm	23 ℃	IEC 60243-1	kV/mm	
Note) Typical values are only for material selection p			e for various colors.	
Values given should not be interpreted as spec				
All properties, except melt flow rate are measured	red on injection molulded s	pecimens and after 48	hours storage at 23	3 C, 50% relative humidty
			Updated : 2	25-Apr-16

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Processing Guide (Injection Molding)

Processi	ng Parameters	Unit	Value
Drying Temperature		C	80 ~ 90
Drying Time		hrs	3 ~ 4
Recommendable Moisture Conte	nt	%	0.05 below
Melt Temperature		C	230 ~ 270
Cylinder Temperature	Rear	C	180 ~ 210
	Middle	C	210 ~ 230
	Front	C	230 ~ 240
Nozzle Temperature		C	230 ~ 240
Mold Temperature		C	40 ~ 60
Back Pressure		kg/cm ²	10 ~ 30
Measuring Speed		rpm	Low speed

Note) Back Pressure & Measuring 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.

Updated : 25-Apr-16

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