



ABS XR410

Injection Molding Grade

Description

High Heat, High Impact

Application

Automotives Interior & Exterior Housing

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Density		ISO 1183	g/cm ³	1.05
Molding Shrinkage (Flow), 3.2mm		ISO 294-4	%	0.4 ~0.8
Melt Flow Rate	220℃/10kg	ISO 1133	g/10min	7.0
Aechanical				
Tensile Strength		ISO 527		
@ Yield	50mm/min		MPa	50
Tensile Modulus	1mm/min	ISO 527	MPa	2,300
Flexural Strength	2mm/min	ISO 178	MPa	70
Flexural Modulus	2mm/min	ISO 178	MPa	2,350
IZOD Impact Strength, 80*10*4mm		ISO 180/1A		
(Notched)	23 ℃		kJ/m ²	15.0
	-30 ℃		kJ/m ²	8.0
Charpy Impact Strength, 80*10*4mm		ISO179/1eA		
(Notched)	23 ℃		kJ/m ²	13.0
	-30 ℃		kJ/m ²	8.0
Rockwell Hardness		ISO 2039	-	110
(unannealed)	1.8MPa 0.45MPa	ISO 75/Be ISO 75/Ae	ວ ວ	86
	0.45MPa	ISO 75/Ae		
Vicat Softening Temperature		ISO 306		
	50N, 50℃/h		C	107
CLTE, 23℃ to 60℃		ISO 11359-2		
Flow			10 ⁻⁵ m/m ℃	
Cross-flow			10 ⁻⁵ m/m ℃	
Flammability		UL94		HB
Relative Temperature Index		UL 746B		
Electrical			C	
Mechanical with Impact			°C	
Mechanical without Impact			°C	
lectrical				
Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	
J		IEC 60093	Ohm	
Surface Resistivity				
	23 ℃	IEC 60093	Ohm∙m	
Surface Resistivity	23℃ 23℃		Ohm∙m kV/mm	

Updated : 12-Jan-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	%	0.07 below
Melt Temperature		C	230 ~ 260
Cylinder Temperature	Rear	Ĵ	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.

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