



Modified Polyphenylene Ether Resin  
High-Stiffness, Low-Warp, High-Flow Chassis Grade

	Property	Units	Test Method	Test Condition	X1744
Physical	Specific Gravity		ISO 1183	23°C	1.37
	Moisture Absorption	%	ISO 62	Immersion for 24 hours	0.05
Thermal	Flammability		UL 94		V-0(3.0mm) V-1(1.6mm) 5VA(2.2mm)
	Temperature of Deflection Under Load(DTUL)	°C	ISO 75-1	1.80MPa	118
			ASTM D 648	1.82MPa	120
	Coefficient of Linear Thermal Expansion	mm/mm/°C	ISO 11359	-30°C~65°C	$3.5 \times 10^{-5}$
	Moulding Shrinkage	%	ASAHIKASEI Method	150×150×2mm	0.15-0.43
Electrical	Dielectric Constant		IEC 60250	100Hz	3.4
				1MHz	3.3
	Dissipation Factor		IEC 60250	100Hz	0.0070
				1MHz	0.0090
	Volume Resistivity	Ohm-cm	IEC 60093	23°C 50% RH	$10^{16}$
	Surface Resistivity	Ohm	IEC 60093	23°C 50% RH	$10^{16}$
	Dielectric Strength	kV/mm	IEC 60243	Short time. 2mm	
Mechanical	Tensile Strength	MPa	ISO 527	23°C 50% RH	90
	(Nominal) Tensile Strain	%	ISO 527	23°C 50% RH	2
	Flexural Strength	MPa	ISO 178	23°C 50% RH	140
	Flexural Modulus	MPa	ISO 178	23°C 50% RH	7500
	Charpy Impact Strength	KJ/m <sup>2</sup>	ISO 179	4mm 23°C(Notched)	5
Molding Conditions	Resin Temperature	°C			250-300
	Mold Temperature	°C			70-90
	Pre-Drying Temperature	°C			90-100
	Pre-Drying Time	Hr			2-4
Remark					Filler 35%

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.

Please use these data for selecting the most appropriate grade suitable for specific usage.

These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.

- Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.

