

Product Texts

NORYL™ FP3060 resin is a non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable grade contains non-brominated, non-chlorinated flame retardant with a UL94 flame rating of V0 at 2.5mm and V0 at 2.5mm. NORYL FP3060 resin was designed to have very good dimensional stability with high flow and exhibits good rheological properties, high heat resistance, hydrolysis resistance, and very low density. The combination of these properties makes this material an excellent candidate for Flat Panel TV enclosure applications.

UL Yellow Card Link [E45329-100064745](https://www.ul.com/yellow-card/E45329-100064745)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	41	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	2.16	kg	-
Thermal conductivity of melt	0.19	W/(m K)	-
Spec. heat capacity of melt	1760	J/(kg K)	-
Ejection temperature	94	°C	-
ASTM Data			
Melt Flow Index, MFI	42	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	3.8	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2420	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	42	MPa	ISO 527
Strain at break	11	%	ISO 527
Flexural modulus	2530	MPa	ISO 178
Charpy notched impact strength, +23°C	6	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2200	MPa	ASTM D 638
Tensile Strength at Yield	54	MPa	ASTM D 638
Tensile Strength at Break	55	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	12	%	ASTM D 638
Flexural Modulus	2400	MPa	ASTM D 790
Izod Impact notched, 1/8 in	78	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	74	°C	ISO 75-1/-2
Vicat softening temperature, B	91	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	93	°C	ISO 306
Coeff. of linear therm. expansion, parallel	59	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-1	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	2.5	mm	-
ASTM Data			
DTUL @ 264 psi	80	°C	ASTM D 648
Vicat Temperature	105	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.13	%	Sim. to ISO 62

NORYL™ Resin FP3060 - Europe
(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Humidity absorption	0.02	%	Sim. to ISO 62
Density	1100	kg/m ³	ISO 1183
Density	1100	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	65 - 75	°C	-
Pre-drying - Time	2 - 3	h	-
Melt temperature	250 - 285	°C	-
Mold temperature	40 - 65	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	200 - 220	°C	-
Zone 2	230 - 260	°C	-
Zone 3	250 - 285	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

Europe