

Product Texts

NORYL™ EM7301F resin is a 10% glass reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable grade exhibits high heat resistance, good flow and polyurethane foam adhesion along with creep resistance, dimensional stability, and hydrolytic stability. NORYL EM7301F resin is an excellent candidate for automotive interior applications such as audio speaker components. This material is available only in black.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	18	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3700	MPa	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus	3500	MPa	ISO 178
Charpy impact strength, +23°C	19	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	19	kJ/m ²	ISO 179/1eU
Izod impact strength, +23°C, 4mm	20	kJ/m ²	ISO 180/1U
Izod impact strength, -30°C, 4mm	20	kJ/m ²	ISO 180/1U

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, A	135	°C	ISO 306
Vicat softening temperature, B	125	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	130	°C	ISO 306
Coeff. of linear therm. expansion, parallel	50	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	100	E-6/K	ISO 11359-1/-2
Thermal Conductivity	0.23	W/(m K)	DIN 52616

Other properties	Value	Unit	Test Standard
Water absorption	0.2	%	Sim. to ISO 62
Humidity absorption	0.06	%	Sim. to ISO 62
Density	1120	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	2 - 3	h	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 120	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	240 - 260	°C	-
Zone 2	260 - 280	°C	-
Zone 3	280 - 300	°C	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Chemical Resistance

Hydrolytically Stable

Regional Availability

Europe