

Product Texts

Modified PPO Resin with 30% Glass Fiber Reinforced

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	2	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	3.2	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8200	MPa	ISO 527
Stress at break	110	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus	6800	MPa	ISO 178
Charpy notched impact strength, +23°C	8	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8600	MPa	ASTM D 638
Tensile Strength at Break	130	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	7200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	100	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	120	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	590	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	139	°C	ISO 75-1/-2
Vicat softening temperature, B	147	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	149	°C	ISO 306
ASTM Data			
DTUL @ 66 psi	147	°C	ASTM D 648
DTUL @ 264 psi	139	°C	ASTM D 648
Vicat Temperature	147	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.1	%	Sim. to ISO 62
Humidity absorption	0.04	%	Sim. to ISO 62
Density	1310	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	300 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	265 - 315	°C	-
Zone 2	275 - 320	°C	-
Zone 3	290 - 325	°C	-

NORYL™ Resin PX5534 - Asia

(PPE+PS)-GF30

Saudi Basic Industries Corporation (SABIC)

Characteristics

Processing

Injection Molding

Regional Availability

Asia Pacific

Applications

Automotive