

NORYL™ Resin EFN4230S

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

NORYL EFN4230S resin is a high heat, transparent, non-reinforced blend of polyphenylene ether (PPE) + polystyrene (PS). This FDA Food Contact compliant material may be an excellent candidate for food and industrial packaging applications. *See NORYL EFN4230 resin for NON FDA food compliant version

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	14.2	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Flexural Modulus	2800	MPa	ASTM D 790
Flexural Strength	119	MPa	ASTM D 790
Izod Impact notched, 1/8 in	31	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	147	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.07	%	ASTM D 570
Density	1080	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	-
Nozzle temperature	300 - 325	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat, Transparent

Certifications

Food contact, Food approval FDA 21 CFR

Applications

Packaging

Regional Availability

North America, Europe, Asia Pacific, South and Central America