

NORYL™ RESIN EFN4230

REGION ASIA

DESCRIPTION

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

GENERAL INFORMATION	
Features	Hydrolytic Stability, Low Warpage, Amorphous, Low Shrinkage, Low Moisture Absorption, Low Specific Gravity, Transparent/Translucent, Dimensional stability, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyphenylene Ether + PS (PPE+PS)
Processing Techniques	Extrusion
INDUSTRY	SUB INDUSTRY
Industrial	Material Handling
Packaging	Industrial Packaging

TYPICAL PROPERTY VALUES

Revision 20241016

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield	81	MPa	SABIC - Japan Method
Tensile Strain, break	80	%	SABIC - Japan Method
Flexural Stress	119	MPa	ASTM D790
Flexural Modulus	2800	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	31	J/m	ASTM D256
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 6.4 mm, unannealed	147	°C	ASTM D648
CTE, -30°C to 30°C	6.0E-05	1/°C	TMA
PHYSICAL ⁽¹⁾			
Specific Gravity	1.08	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.07	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm ⁽²⁾	0.5 – 0.7	%	SABIC method
Melt Flow Rate, 300°C/5.0 kgf	14.2	g/10 min	ASTM D1238

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.



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