

NORYL™ RESIN CRX1005

REGION ASIA

DESCRIPTION

NORYL CRX1005 resin is a non-reinforced blend of polyphenylene ether (PPE) + polystyrene (PS). This injection moldable and extrusion grade was developed with improved chemical resistance and exhibits low moisture absorption, creep resistance, dimensional stability, and hydrolytic stability.

GENERAL INFORMATION	
Features	Hydrolytic Stability, Low Warpage, Amorphous, Low Shrinkage, Low Moisture Absorption, Low Specific Gravity, Dimensional stability, Impact resistant, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyphenylene Ether + PS (PPE+PS)
Processing Techniques	Injection Molding, Extrusion
INDUSTRY	SUB INDUSTRY
Building and Construction	Water Management
Consumer	Home Appliances

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield	35	MPa	SABIC - Japan Method
Tensile Strain, break	150	%	SABIC - Japan Method
Flexural Stress	55	MPa	ASTM D790
Flexural Modulus	1740	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	274	J/m	ASTM D256
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 6.4 mm, unannealed	105	°C	ASTM D648
CTE, -30°C to 30°C	7.E-05	1/°C	TMA
PHYSICAL ⁽¹⁾			
Specific Gravity	1.06	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.07	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm ⁽²⁾	0.5 – 0.8	%	SABIC method
Melt Flow Rate, 300°C/5.0 kgf	14	g/10 min	ASTM D1238
ELECTRICAL ⁽¹⁾			
Surface Resistivity	1.E+16	Ω	ASTM D257

(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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