

NORYL GTX™ Resin GTX8120RC

DESCRIPTION

NORYL GTX8120RC resin is a 20% glass fiber reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA) with 40% Post Industrial recycled content. This extrudable grade has excellent chemical resistance and high heat resistance. . NORYL GTX8120P resin is anodizable, has low thermal conductivity and is an excellent candidate for extruded thermal break applications.

GENERAL INFORMATION	
Features	Chemical Resistance, Hydrolytic Stability, Good Stiffness, Good dimensional stability, High Heat Resistance, High Strength, Mechanical Recycling
Fillers	Glass Fiber
Polymer Types	Polyphenylene Ether + PA (PPE+Nylon)
Processing Techniques	Profile Extrusion

TYPICAL PROPERTY VALUES

Revision 20260907

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, break, 5 mm/min	120	MPa	ISO 527
Tensile Nominal Strain, break, 5 mm/min	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	6800	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	160	MPa	ISO 178
Flexural Modulus, 2 mm/min	5500	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	5	kJ/m²	ISO 179/1eA
THERMAL ⁽¹⁾			
CTE, 23°C to 60°C, flow	3.5E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	7.5E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	228	°C	ISO 306
Vicat Softening Temp, Rate B/120	228	°C	ISO 306
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	239	°C	ISO 75/Bf
PHYSICAL ⁽¹⁾			
Density	1.24	g/cm³	ISO 1183
Water Absorption, (23°C/saturated)	2.5	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	1	%	ISO 62
Melt Volume Rate, MVR at 280°C/10.0 kg	11	cm³/10 min	ISO 1133
Melt Volume Rate, MVR at 300°C/10.0 kg	34	cm³/10 min	ISO 1133
PROFILE EXTRUSION ⁽²⁾			
Drying Temperature	110 – 120	°C	
Drying Time	2 – 4	Hrs	
Melt Temperature	270 – 280	°C	
Calibrator Temperature	20 – 100	°C	

- (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) Processing parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations.

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