

NORYL™ RESIN PKN4752

REGION EUROPE

DESCRIPTION

NORYL PKN4752 resin is a non-reinforced, translucent, high heat blend of polyphenylene ether (PPE) + general purpose polystyrene (GPPS). This extrudable and injection moldable grade exhibits high heat resistance, dimensional stability, and appears translucent with a yellow tint in the natural color. NORYL PKN4752 resin is an excellent candidate for high performance packaging in food, electronics, and healthcare. *See NORYL PKN4752F resin for FDA food compliant version.

GENERAL INFORMATION	
Features	Hydrolytic Stability, Low Warpage, Amorphous, Low Shrinkage, Low Moisture Absorption, Low Specific Gravity, Transparent/Translucent, Dimensional stability, High temperature resistance
Fillers	Unreinforced
Polymer Types	Polyphenylene Ether + General Purpose PS (PPE+GPPS)
Processing Techniques	Sheet extrusion, Profile Extrusion

INDUSTRY	SUB INDUSTRY
Industrial	Material Handling
Packaging	Industrial Packaging

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield, 50 mm/min	86	MPa	ISO 527
Tensile Strain, break, 50 mm/min	6	%	ISO 527
Tensile Modulus, 1 mm/min	3100	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	130	MPa	ISO 178
Flexural Modulus, 2 mm/min	2950	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	3	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	2	kJ/m ²	ISO 179/1eA
Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm	2	kJ/m ²	ISO 179/1eA
THERMAL ⁽¹⁾			
Vicat Softening Temp, Rate A/50	174	°C	ISO 306
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	163	°C	ISO 75/Be
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	147	°C	ISO 75/Ae
PHYSICAL ⁽¹⁾			
Density	1.08	g/cm ³	ISO 1183
PROFILE EXTRUSION			
Drying Temperature	80 – 95	°C	
Drying Time	2 – 4	Hrs	
Melt Temperature	280 – 300	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Barrel - Zone 1 Temperature	215 – 240	°C	
Barrel - Zone 2 Temperature	225 – 250	°C	
Barrel - Zone 3 Temperature	250 – 275	°C	
Barrel - Zone 4 Temperature	250 – 275	°C	
Hopper Temperature	50 – 70	°C	
Adapter Temperature	250 – 275	°C	
Die Temperature	250 – 275	°C	
Calibrator Temperature	60 – 80	°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.

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