

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

Industrial
Packaging

SUB INDUSTRY

Material Handling
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	

© 2023 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™

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.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.