NORYL™ RESIN FR9310

REGION EUROPE

DESCRIPTION

NORYL(tm) FR9310 resin concentrate is a polyphenylene ether (PPE) resin containing non-brominated, non-chlorinated flame retardant with Vicat of 165°C. This FR concentrate comes in granule form and is intended for use as an additive or a building block in a variety of thermoplastics and thermoplastic elastomers, such as polystyrene, to improve heat resistance and / or flame retardant properties.

TYPICAL PROPERTY VALUES

Revision 20190903

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	85	MPa	ISO 527
Tensile Stress, break, 50 mm/min	60	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	5	%	ISO 527
Tensile Strain, break, 50 mm/min	15	%	ISO 527
Tensile Modulus, 1 mm/min	2500	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	125	MPa	ISO 178
Flexural Modulus, 2 mm/min	2500	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL			
Vicat Softening Temp, Rate B/50	165	°C	ISO 306
Vicat Softening Temp, Rate B/120	165	°C	ISO 306
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	156	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	141	°C	ISO 75/Af
PHYSICAL			
Density	1.1	g/cm³	ISO 1183
Melt Volume Rate, MVR at 300°C/5.0 kg	30	cm³/10 min	ISO 1133

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