

ORGALLOY®

R60 ES NAT

Maximum Strain, parallel	530 / *	%	ISO 527-3
Maximum Strain, normal	530 / *	%	ISO 527-3
Elmendorf Tear Resistance, parallel	40 / *	N	ISO 6383-2
Elmendorf Tear Resistance, normal	35 / *	N	ISO 6383-2
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	75 / *	°C	ISO 75-1/-2
	167 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	130 / *	°C	ISO 75-1/-2
	266 / *	°F	
Vicat Softening Temperature, 50°C/h 50N	134 / *	°C	ISO 306
	273 / *	°F	
Coeff. of Linear Thermal Expansion, parallel	93 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Thermal Expansion, normal	133 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	HB / *	class	IEC 60695-11-10
Thickness Tested	1.6 / *	mm	-
	0.0630 / *	in	
Burning Behav. at Thickness h	HB / *	class	IEC 60695-11-10
Thickness Tested	3.2 / *	mm	-
	0.1260 / *	in	
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	- / 3	-	IEC 60250
Relative Permittivity, 1MHz	- / 3	-	IEC 60250
Dissipation Factor, 100Hz	- / 620	E-4	IEC 60250
Dissipation Factor, 1MHz	- / 250	E-4	IEC 60250
Volume Resistivity	- / >1E13	Ohm*m	IEC 60093
Surface Resistivity	* / >1E15	Ohm	IEC 60093
Dielectric (Electric) Strength	38 / 38	kV/mm	IEC 60243-1
	965 / 965	kV/in	
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	3.3 / *	%	Sim. to ISO 62

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Humidity Absorption	1.3 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m ³	ISO 1183
	1.03 / 1.03	g/cm ³	

FILM PROPERTIES

Oxygen Transmission Rate, 23°C/0%r.h.	170 / *	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
Oxygen Transmission Rate, 23°C/85%r.h.	170 / *	cm ³ /(m ² *d*bar)	ISO 15105-1/-2

MAIN APPLICATIONS:

- Technical film for Sheet Molding Compound (SMC)

PACKAGING:

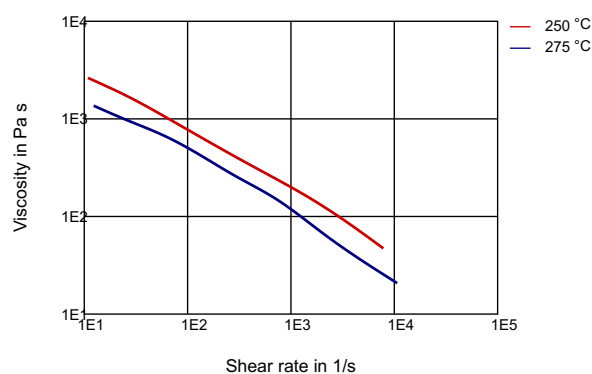
This grade is delivered dried in sealed packaging (800kg octabin) ready to be processed.

SHELF LIFE:

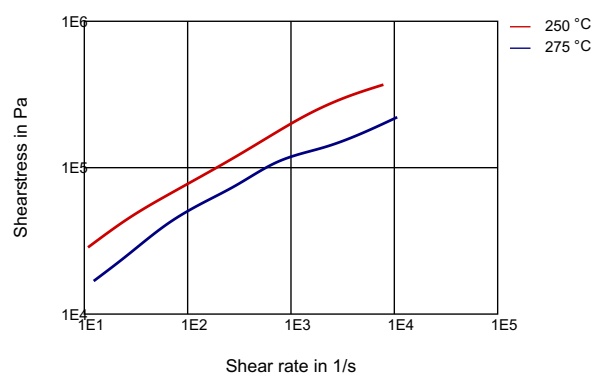
Two years from the date of delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

VISCOSITY-SHEAR RATE



SHEARSTRESS-SHEAR RATE



Processing conditions:

- Drying time (only necessary for bags opened for more than two hours): 4-8 hours at 80°C
- Extrusion melt temperature (min-recommended-max): 250-260-270°C

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PROCESSING Film Extrusion, Other Extrusion	
DELIVERY FORM Pellets	
SPECIAL CHARACTERISTICS Heat Stabilized, Light Stabilized	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	