

PALMID® R 12 E

Polyamide 12
pal plast GmbH

Message:

PALMID®R 12 E is a polyamide 12 (nylon 12) product. It can be processed by extrusion and is available in Europe.
Features include:
flame retardant/rated flame
plasticization
low hygroscopicity
high viscosity

General Information			
Additive	Plasticizer		
Features	Low hygroscopicity		
	Plasticized		
	Viscosity, High		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	700	MPa	ISO 527-2/1A/1
Tensile Stress (Yield, 23°C)	32.5	MPa	ISO 527-2/1A/50
Tensile Strain (Yield, 23°C)	18	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break (23°C)	50	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information			

Tensile Modulus, ISO 527, 23°C, 1 mm/min, Type A: 650 to 750 MPaTensile Stress at Yield, ISO 527, 23°C, 50 mm/min, Type A: 30 to 35 MPaTensile Strain at Yield, ISO 527, 23°C, 50 mm/min, Type A: 15 to 20 %Nominal Tensile Strain at Break, ISO 527, 23°C, 50 mm/min, Type A: >50 %Charpy Notched Impact, ISO 179, Type 1, Edgewise, Notch A, 23°C: 30 to 40 kJ/m²Vicat Softening Temperature, ISO 306, B50 (50°C/h 50N): 126 to 130 °CDensity, ISO 1183: 1 to 1.02 g/cm³Moisture Absorption, ISO 62, 23°C, 50% RH: 0.4 to 0.6 %

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