Chemlon® 66AR

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

66AR is an unfilled, impact modified grade of nylon 66 with a lower coefficient of friction due to the incorporation of molybdenum disulphide - which also enhances the wear resistance. This material can therefore be considered for applications involving moving parts that require improved impact.

General Information			
Additive	Impact modifier Molybdenum disulfide lubricant		
Features	Impact modification Low friction coefficient Good wear resistance Good toughness Lubrication		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.12	g/cm³	ISO 1183
Molding Shrinkage [1]	1.5 - 2.2	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.1	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress	55.0	MPa	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress	60.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	20	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Notched Izod Impact	15	kJ/m²	ISO 180/A
Unnotched Izod Impact Strength	No Break		ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	180	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	17	kV/mm	IEC 60243-1

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, Teknor Apex test result)	HB		UL 94
Oxygen Index	21	%	ISO 4589-2

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0	hr
Rear Temperature	270 - 290	°C
Middle Temperature	270 - 290	°C
Front Temperature	270 - 290	°C
Processing (Melt) Temp	270 - 290	°C
Mold Temperature	80.0 - 90.0	°C
Injection Rate	Fast	
Back Pressure	Low	
Screw Speed	Moderate	

Injection instructions
No drying is necessary unless the material has been exposed to air for longer than three hours. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present.

NOTE	
1.	Mould shrinkage is significantly influenced by many factors including wall thickness, gating, moulding shape and processing conditions. The range values given are determined from specimen bar mouldings of 1.5mm to 4mm wall thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding).

Recommended distributors for this material

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