Kynar Flex® 2800-00

Polyvinylidene Fluoride

Arkema

Message:

KYNAR FLEX® 2800-00 is a pelletized, semi-crystalline VF 2 based copolymer. KYNAR FLEX® 2800-00 has been specifically designed for use in wire and cable constructions and other uses requiring high flexibility and improved resistance to impact. For chemical applications, it can be extruded into sheets and tubing. KYNAR FLEX® 2800-00 can be injection molded.
ADVANTAGES:
Improved flexibility at subzero temperatures to -20°C(-4°F)
Improved stress crack resistance to -20°C(-4°F)
Improved elongation at break
ADDITIONAL CHARACTERISTICS:
Easy processability using conventional equipment
Excellent thermal stability
Excellent chemical resistance
Retains properties after aging
Meets UL 910 smoke and flame requirements as cable jacket
UL temperature rating 125°C
Radiation crosslinking

General Information	
UL YellowCard	E54699-244851
Features	Good Chemical Resistance Good Flexibility Good Impact Resistance Good Processability Good Thermal Stability High ESCR (Stress Crack Resist.) Low Temperature Flexibility
Uses	Sheet Tubing Wire & Cable Applications
Forms	Pellets
Processing Method	Extrusion Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77 to 1.80	g/cm³	ASTM D792

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	60 to 70		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 23°C	20.0 to 34.5	MPa	
Break, 23°C	17.2 to 34.5	MPa	
Tensile Elongation (Break, 23°C)	100 to 300	%	ASTM D638
Flexural Modulus (23°C)	483 to 758	MPa	ASTM D790
Flexural Strength (23°C)	20.7 to 34.5	MPa	ASTM D790
Compressive Strength (23°C)	31.0 to 41.4	MPa	ASTM D695
Thermal	**Nominal Value**	**Unit**	**Test Method**
Peak Melting Temperature	140 to 145	°C	ASTM D3418
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity [1] (20°C)	2.0E+14	ohms·cm	ASTM D257
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity (232°C, 100 sec^-1)	2200 to 2700	Pa·s	ASTM D3835
NOTE			
1.	65% R.H.		

Recommended distributors for this material

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