Kynar Flex® 2850-02

Polyvinylidene Fluoride

Arkema

Message:

KYNAR FLEX® 2850-02 is a pelletized, semi-crystalline VF2 based copolymer.
KYNAR FLEX® 2850-02 has been specifically designed for use in wire and cable constructions which require an Underwriters Laboratories temperature of 150°C and a Limiting Oxygen Index (LOI) of at least 75.
KYNAR FLEX® 2850-02 is easily processed and has excellent physical, mechanical, thermal and flame resistant characteristics. KYNAR FLEX® 2850-02 meets the smoke and flame requirements of UL 910 and ASTM E84 (the Modified Steiner Tunnel Test). This copolymer is commonly used for pipe, wire jacketing, conduits, and in injection molded parts.
ADDITIONAL CHARACTERISTICS:
Excellent thermal stability
Excellent abrasion resistance
Impervious to UV degradation
Self extinguishing material
Extremely low smoke emission characteristics
0/0 rating in ASTM E-84/UL 723

General Information			
UL YellowCard	E54699-101066240		
Features	Good Abrasion Resistance Good Thermal Stability Good UV Resistance Low Smoke Emission Self Extinguishing Semi Crystalline		
Uses	Conduit Piping Wire & Cable Applications Wire Jacketing		
Forms	Pellets		
Processing Method	Injection Molding		
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)	70 to 75		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 23°C	31.0 to 41.4	MPa	
Break, 23°C	27.6 to 48.3	MPa	
Tensile Elongation (Break, 23°C)	30 to 200	%	ASTM D638
Flexural Modulus (23°C)	1030 to 1240	MPa	ASTM D790

Flexural Strength (23°C)	20.7 to 34.5	MPa	ASTM D790
Compressive Strength (23°C)	41.4 to 58.6	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	155 to 160	°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)	1600 to 2000	Pa·s	ASTM D3835
NOTE			
1.	65% R.H.		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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