FLEX NORYL™ Resin WCD815U - Asia

(PPE+TPE) Saudi Basic Industries Corporation (SABIC)

Product Texts

FLEX NORYL™ WCD815U resin is a flexible, non-reinforced extrudable blend of Polyphenylene Ether (PPE) + Thermoplastic Elastomer (TPE). This UV stabilized material contains non-halogenated flame retardant and performance capable of meeting UL 1581 VW-1 requirements. FLEX NORYL WCD815U resin is intended for evaluation in AC cable jacket applications that require UL62 at 90C temperature rating and light color. It has a Shore A Hardness reading of 81 and exhibits superior thermal stability, very low water absorption, good electric properties, and low specific gravity. Processing is typically conducted on standard extrusion equipment, and UL 1581 testing is conducted on 2.0mm wire with 0.12mm X 20 stranded copper conductor.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**10**	g/10min	ASTM D 1238
Temperature	**250**	°C	-
Load	**10**	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Stress at break	**17**	MPa	ISO 527
Strain at break	**50**	%	ISO 527
ASTM Data			
Tensile Strength at Break	**15**	MPa	ASTM D 638
Elongation at Break	**245**	%	ASTM D 638
Shore A Hardness	**81**	-	ASTM D 2240

Thermal properties	Value	Unit	Test Standard
ISO Data			
Glow Wire Flammability Index (GWFI)	**850**	°C	IEC 60695-2-12
GWFI - thickness tested (2)	**3**	mm	-
Glow Wire Ignition Temperature (GWIT)	**775**	°C	IEC 60695-2-13
GWIT - thickness tested (3)	**3**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	**600**	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	**25**	kV/mm	ASTM D 149
Surface Resistivity	**>1E15**	Ohm	ASTM D 257
Volume Resistivity	**>1E15**	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	**1030**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Screw speed	**15 - 85**	rpm	-

Characteristics

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Regional Availability

Asia Pacific